

FILE NOTATIONS

Entered in NID File ✓
Location Map Pinned ✓
Card Indexed ✓

Checked by Chief *PMB*
Approval Letter *7.2.71*
Disapproval Letter

COMPLETION DATA:

Date Well Completed *9.21.71*

Location Inspected

W..... WW..... TA.....
GW..... OS..... PA.....

Bond released
State or Fee Land

LOGS FILED

Driller's Log *10-6-71*

Electric Logs (No.)

E..... I..... Dual I Lat..... GR-N..... Micro.....

BHC Sonic GR..... Lat..... MI-L..... Sonic.....

CBLog..... CCLog..... Others.....

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐

OTHER

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

GULF OIL CORPORATION

3. ADDRESS OF OPERATOR

P. O. Box 2619, Casper, Wyoming 82601

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

591' NWL & 835' BNL (NW NW) *hsk 1*

At proposed prod. zone

Same *SWNW NW*

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

15. DISTANCE FROM PROPOSED* 591' West of E Line
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any) of Sec 1916. NO. OF ACRES IN LEASE
18117. NO. OF ACRES ASSIGNED
TO THIS WELL
-18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

None

19. PROPOSED DEPTH
7300'20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

4680' Ground (Ungraded)

22. APPROX. DATE WORK WILL START*

7-1-71

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24# K-55	300'	Cement to Surface
7-7/8"	5-1/2"	14# 15.5# K-55	7300'	As Needed

Propose to drill a 7300' test of the Lower Green River.

Location is within the Brennan Bottoms Unit.

Proposed Mud Program

0' - 300' Fresh Water Spud Mud
300' - 4500' Air or Air Mist
4500' - 7300' Fresh Water, Low Solids Mud

BOP - Hydraulically actuated, double gate, bag type, rotating head.

APPROVED BY DIVISION OF
OIL & GAS CONSERVATIONDATE *7-2-71*BY *Chas B. Faght*

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

L. M. Wilson

TITLE

Area Production Manager

DATE

June 29, 1971

(This space for Federal or State office use)

PERMIT NO.

43-047-30109

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

cc: See Backside

*See Instructions On Reverse Side

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

U.S. GOVERNMENT PRINTING OFFICE : 1963-O-711-396

839-171

cc: Utah Oil and Gas Commission

Phillips Petroleum Company
1300 Security Life Building
Denver, Colorado 80202 - Roy A. Burt

Buttram Texhoma Co.
6421 Avondale
Oklahoma City, Oklahoma 73116

Geo P. Caulkins, Jr.
315 Majestic Building
Denver, Colorado 80202

Zions First National Bank
Guardian for N. G. Morgan, Sr.
One Main Street
Salt Lake City, Utah 84110

N. G. Morgan, Jr. Estate
Box 11131
Salt Lake City,

Humble Oil & Refining Company
Box 120
Denver, Colorado 80201 F. E. Dickerson

Paul T. Walton
1205 Walker Bank Building
Salt Lake City, Utah 84111

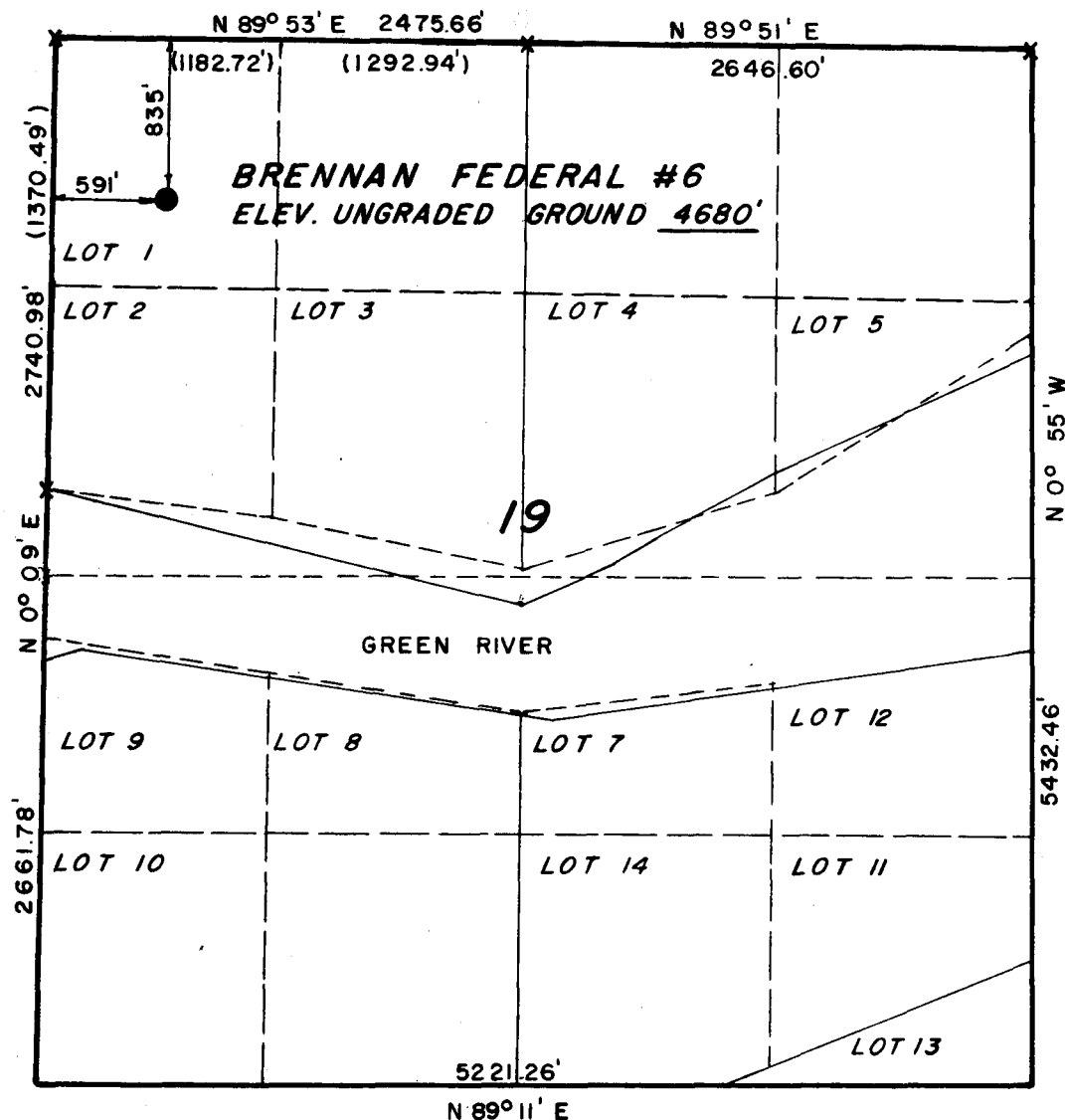
JUL 1 1971

T7S, R21E, S.L.B.&M.

PROJECT

GULF OIL COMPANY

Well location, **BRENNAN FEDERAL #6**,
located as shown in Lot #1 Section
19, T7S, R21E, S.L.B. & M. Uintah County,
Utah.



X = Section Corners Located (Brass Caps)

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

Lawrence C. Ray
REGISTERED LAND SURVEYOR
REGISTRATION NO 3137
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P.O. BOX Q - 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 26 June, 1971
PARTY L.C.K. B.R.	REFERENCES GLO Plat
WEATHER Hot	FILE GULF OIL CO.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL:		OIL WELL <input checked="" type="checkbox"/>	GAS WELL <input type="checkbox"/>	DRY <input type="checkbox"/>	Other <input type="checkbox"/>										
b. TYPE OF COMPLETION:		NEW WELL <input checked="" type="checkbox"/>	WORK OVER <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>	DIFF. RESVR. <input type="checkbox"/>	Other <input type="checkbox"/>								
2. NAME OF OPERATOR Gulf Oil Corporation															
3. ADDRESS OF OPERATOR P. O. Box 2619															
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 591' EWL and 835' SNL (NW NW) At top prod. interval reported below Same At total depth Same															
14. PERMIT NO.		DATE ISSUED													
15. DATE SPUDDED 7-8-71		16. DATE T.D. REACHED 8-7-71		17. DATE COMPL. (Ready to prod.) 9-21-71		18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 4691' KB - 4679' Ground		19. ELEV. CASINGHEAD -							
20. TOTAL DEPTH, MD & TVD 7150'		21. PLUG, BACK T.D., MD & TVD 6975'		22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY Surface to TD		CABLE TOOLS None							
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 6776'-92' Green River 6738'-46' 6542'-50' - Green River								25. WAS DIRECTIONAL SURVEY MADE No							
26. TYPE ELECTRIC AND OTHER LOGS RUN Induction Electric Log - Compensated Formation Density Log								27. WAS WELL CORED— No							
28. CASING RECORD (Report all strings set in well)															
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED					
8-5/8"		24# K-55		333'		13-3/4"		Cemented to Surface		None					
5-1/2"		14-15.5# 17#		K-55 7033'		7-7/8"		1st Stage 300 Sx - 7033'		None					
		(Cement off shallow gas interval)						2nd Stage 800 Sx - 2876'							
29. LINER RECORD										30. TUBING RECORD					
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*		SCREEN (MD)		SIZE		DEPTH SET (MD)		PACKER SET (MD)	
None										2-7/8"		6845'		None	
31. PERFORATION RECORD (Interval, size and number)										32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
6776-92'		2 Jets/ft		8-18-71		DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED							
6738-46'		4 Jets/ft				6776-92' 6738-46'		5000 gal 15% HCl Acid							
6542-50'		4 Jets/ft		8-23-71		6542-50'		5000 gal 15% HCl Acid							
(Continued on Backside)															
33.* PRODUCTION															
DATE FIRST PRODUCTION 9-12-71		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pumping								WELL STATUS (Producing or Producing					
DATE OF TEST 9-21-71		HOURS TESTED 24		CHOKE SIZE None		PROD'N. FOR TEST PERIOD 51		OIL—BBL. TSTM		GAS—MCF. None		WATER—BBL. None		GAS-OIL RATIO -	
FLOW. TUBING PRESS. -		CASING PRESSURE -		CALCULATED 24-HOUR RATE 51		OIL—BBL. TSTM		GAS—MCF. None		WATER—BBL. None		OIL GRAVITY-API (CORR.) 30.9			
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Used for lease operations and supplemented with butane.												TEST WITNESSED BY			
35. LIST OF ATTACHMENTS Logs per item 26															
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records															
SIGNED L. M. WILSON TITLE Area Production Manager DATE October 4, 1971															

*(See Instructions and Spaces for Additional Data on Reverse Side)

cc - 2 - Utah Oil & Gas Commission 1 - George P. Caulkins, Jr. 2100 Colorado State Bank
1600 Broadway - Denver, Colorado 80202

File

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
31. Perforation Record - Continued			
	2670-71'		4 Jets/ft Squeeze cemented with 250 Sx No Treatment This Zone (Cement off shallow gas zone) (2nd Attempt)
	No DST's		
	No Cores		

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Green River Formation	3338	
Parachute Creek Member Green River	4698	
Basal Green River	5740	
H-Sand	6735	
Wasatch	6836	

RECEIVED
 OCT 6 1971
 U.S. GEOLOGICAL SURVEY
 WASHINGTON, D.C.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R3553.

5. LEASE DESIGNATION AND SERIAL NO.

- Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Brennan Bottoms

8. FARM OR LEASE NAME

BRENNAN/FEDERAL

9. WELL NO.

6

10. FIELD AND POOL, OR WILDCAT

Brennan Bottoms

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

19-7S-21E

12. COUNTY OR PARISH

Utah

13. STATE

Utah

19. ELEV. CASINGHEAD

-

23. INTERVALS DRILLED BY

Surface to TD

CABLE TOOLS

25. WAS DIRECTIONAL SURVEY MADE

No

27. WAS WELL CORED

No

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other ☐

2. NAME OF OPERATOR

Gulf Oil Corporation

3. ADDRESS OF OPERATOR

P. O. Box 2619

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 591' EWL and 835' SNL (NW NW)

At top prod. interval reported below

At total depth

Same

Same

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED 7-8-71

16. DATE T.D. REACHED 8-7-71

17. DATE COMPL. (Ready to prod.) 9-21-71

18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 4691' KB - 4679' Ground

20. TOTAL DEPTH, MD & TVD 7150'

21. PLUG, BACK T.D., MD & TVD 6975'

22. IF MULTIPLE COMPL., HOW MANY*

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

6776'-92' Green River

6738'-46' 6542'-50' - Green River

26. TYPE ELECTRIC AND OTHER LOGS RUN

Induction Electric Log - Compensated Formation Density Log

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24# K-55	333'	13-3/4"	Cemented to Surface	None
5-1/2"	14-15.5&17#	K-55 7033'	7-7/8"	1st Stage 300 Sx - 7033'	None
(Cement off shallow gas interval)				2nd Stage 800 Sx - 2876'	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
None					2-7/8"	6845'	None

31. PERFORATION RECORD (Interval, size and number)

6776-92' 2 Jets/ft 8-18-71

6738-46' 4 Jets/ft

6542-50' 4 Jets/ft 8-23-71

(Continued on Backside)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6776-92' & 6738-46'	5000 gal 15% HCl Acid
6542-50'	5000 gal 15% HCl Acid

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD. (Flowing, gas lift, pumping—size and type of pump)					WELL STATUS (Producing or shut-in)	
9-12-71		Pumping					Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO	
9-21-71	24	None	→	51	TSTM	None	-	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)		
-	-	→	51	TSTM	None	30.9		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Used for lease operations and supplemented with butane.

35. LIST OF ATTACHMENTS

Logs per item 26

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

L. M. Wilson

TITLE Area Production Manager

DATE October 4, 1971

*(See Instructions and Spaces for Additional Data on Reverse Side)

cc - 2 - Utah Oil & Gas Commission 1 - George P. Caulkins, Jr. 2100 Colorado State Bank
See Backside 1500 Boradway - Denver, Colorado 80202

Bldg

INSTRUCTIONS

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If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

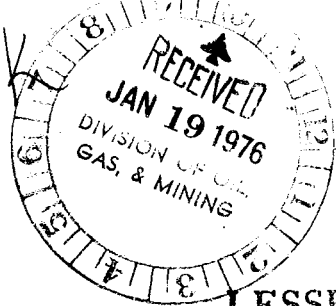
37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
31. Perforation Record - Continued			
2670-71'	4 Jets/ft		
Squeeze cemented with 250 Sx			
No Treatment This Zone			
(Cement off shallow gas zone)			
(2nd Attempt)			
No DST's			
No Cores			
cc - Humble Oil & Refining Co. - Box 120 - Denver, Colorado 80201			
Paul T. Walton - 1205 Walker Bank Building - Salt Lake City, Utah 84111			
N. G. Morgan, Jr. Estate - Box 11131 - Salt Lake City, Utah 84111			
Zions First Nat'l Bank - Guardian for N. G. Morgan, Sr. One Main Street - Salt Lake City, Utah 84110			
Buttram Texhoma Co. 6421 Avondale, Okla City, Okla 73116			
Phillips Petroleum Company - 1300 Security Life Building - Denver, Colorado 80202			

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Green River Formation	3338	
Parachute Creek Member Green River	4698	
Basal Green River	5740	
H-Sand	6735	
Wasatch	6836	



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-R366.5.

LAND OFFICE
LEASE NUMBER
UNIT Brennan Bottom

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Brennan-Bottom

The following is a correct report of operations and production (including drilling and producing wells) for the month of December, 1975,

Agent's address P.O. Box 2619 Company Gulf Oil Corporation
Casper, Wyoming 82601 Signed Pauline Whitley

Phone 307-235-1311 Agent's title Senior Clerk

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NONPARTICIPATING AREA										
NE SE 17	7S	21E	3	21	319	29.1	61 est.		None	SI
NW NW 19	7S	21E	6	0	0		0		None	Lead Line SI for winter
TOTAL					319	29.1	61		None	
WELL #3					WELL #6					
OIL					OIL					
On hand at beginning of month					494	On hand at beginning of month				369
Produced during month					319	Produced during month				0
Sold during month					642	Sold during month				0
Unavoidably lost					0	Unavoidably lost				0
reason						reason				
On hand at end of month					171	On hand at end of month				369
GAS					GAS					
Sold						Sold				0
Flared/Vented						Flared/Vented				0
Used On/Off Lease						Used On/Off Lease				61
2 - U.S.G.S., SLC					WATER					
2 - Utah Oil & Gas Cons. Comm., SLC					Disposition <u>None</u>					
2 - Exxon, Midland					Pit <u>None</u>					
2 - Phillips Petroleum, Bartlesville					Injected <u>None</u>					
1 - OC										
2 - File										
1 - Houston					Brennan/Federal					

Note.—There were 642.41 runs or sales of oil; No M cu. ft. of gas sold;

 runs or sales of gasoline during the month. (Write "no" where applicable.)

Note.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL ☒ GAS ☐ OTHER ☐
WELL WELL

2. NAME OF OPERATOR
Gulf Oil Company

3. ADDRESS OF OPERATOR
P. O. Box 2619, Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface

591' EWL and 835' SNL (NW NW)

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4679' GL

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Brennan/Federal

9. WELL NO.

6

10. FIELD AND POOL, OR WILDCAT

Brennan Bottoms

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

19-7S-21E

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐
☐
☐
☐

PULL OR ALTER CASING

☐
☐
☐
☐

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐
☐
☒

FRACTURE TREATMENT

XXXXXXXXX ACIDIZING

(Other)

REPAIRING WELL

☐
☐
☐

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

see attachment

18. I hereby certify that the foregoing is true and correct

SIGNED

H. J. Tealy
for R. C. Kersey

TITLE

Petroleum Engineer

DATE

June 6, 1978

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

SDN

Make reports complete, such as description of casing . . . Show, as soon as known, name of contractor, type of rig, and kind of fuel . . .
In guide margin show casing (as, 7"), "Contractor," "Shot," "Acidized," etc.

GUIDE MARGIN

DATE

YEAR 1977

A. F. E.

LEASE AND WELL Brennan Federal No. 6

BRENNAN BOTTOMS FIELD

Brennan Federal No. 6

19-7S-21E, Uintah Co., UT

.9909090

5/23/78

Reconditioning. No Gulf AFE. Pressured tbg to 1200#. RU Howco & acidized dn tbg/csg annulus w/ 2000 gal 15% HCL acid containing 4 gal 3N & 6 gal HAI-50. Flushed w/ 3000 gal fm wtr w/ 55 gal Musol A & 6 gal 3N. SION. Returned well to production. Work begun 4-11-78, complete 4-12-78. Prod prior to acid, 14 BOPD & 0 BOPD. Prod after acid on 4-12-78 46 BOPD & 47 BOPD. Prod after acid on 4-23-78 17 BOPD & 0 BOPD. DROP.

Gulf Oil Exploration and Production Company

L. G. Rader
PRODUCTION MANAGER - CASPER AREA

July 2, 1985

P. O. Box 2619
Casper, WY 82602

State of Utah
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

RECEIVED

JUL 05 1985

Gentlemen:


DIVISION OF
GAS & MINES

Effective July 1, 1985, the corporate name of Gulf Oil Corporation was changed to Chevron U.S.A. Inc. This will be applicable to all operations, agreements, contracts, documents, and permits of Gulf Oil Corporation in the area of and/or under your jurisdiction.

The attached information is being furnished to facilitate the name change of appropriate records under your authority, and submitted as our understanding of the procedure required to accomplish the change.

Please advise this office or the office listed on the attachments should additional information be needed.

Sincerely,



L. G. Rader

KWR/mdb

Attachments



A DIVISION OF GULF OIL CORPORATION

TELEPHONE: (307) 235-1311

<u>Lease Name</u>	<u>Field</u>	<u>Section</u>	<u>Township</u>	<u>Range</u>	<u>County</u>	<u>State</u>
Anderson, Owen 1-28A2	Bluebell	28	1S	2W	Duchesne	UT
Antelope Draw Fed. 1-19-2C	Natural Buttes	19	8S	22W	Uintah	UT
Antelope Draw Fed. 2-17-4C	Undesignated	17	8S	22W	Uintah	UT
Antelope Draw Fed. 3-17-3C	Natural Buttes	17	8S	22W	Uintah	UT
Black Jack Ute 1-142D	Altamont	14	4S	6W	Duchesne	UT
Blue Bench/Ute 1-7C4	Altamont	7	3S	4W	Duchesne	UT
Bobo Ute 1-16B2	Altamont	16	4S	6W	Duchesne	UT
Brennan Federal #1	Brennan Bottoms	13	7S	20E	Uintah	UT
Brennan Federal #3	Brennan Bottoms	17	8S	22W	Uintah	UT
Brennan Federal #6	Brennan Bottoms	19	7S	21E	Uintah	UT
Brennan Federal #8	Brennan Bottoms	17	7S	21E	Uintah	UT
Campbell Ute/State 1-7B1	Bluebell	7	2S	1W	Duchesne	UT
Campbell, Darwod Ute 1-12B2	Bluebell	12	2S	2W	Duchesne	UT
Cheney 1-33-A2	Bluebell	33	1S	2W	Duchesne	UT
Cheney 2-33-A2	Bluebell	33	1S	2W	Duchesne	UT
Costas Federal 1-20-4B	Gypsum Hills	20	8S	21E	Uintah	UT
Costas Federal 2-20-3B	Undesignated	20	8S	21E	Uintah	UT
Costas Federal 3-21-1D	Undesignated	21	8S	21E	Uintah	UT
Dillman 2-2BA2	Bluebell	28	1S	2W	Duchesne	UT
Duchesne Co. Snyder 1-9C4	Altamont	9	3S	4W	Duchesne	UT
Duchesne Co. Tribal 1-3C4	Altamont	17	3S	4W	Duchesne	UT
Duchesne County 1-17C4	Altamont	17	3S	4W	Duchesne	UT
Evans Ute 1-17B3	Altamont	17	2S	3W	Duchesne	UT
Evans Ute 2-27B3	Altamont	17	2S	3W	Duchesne	UT
Fortune Ute Fed. 1-11C5	Altamont	11	3S	5W	Altamont	UT
Freston State 1-8B1	Bluebell	8	2S	1W	Duchesne	UT
Geritz Murphy 1-6C4	Altamont	6	3S	4W	Duchesne	UT
Gypsum Hills Unit Fed. #1	Gypsum Hills	17	8S	21E	Uintah	UT
Gypsum Hills Unit Fed. #3	Gypsum Hills	17	8S	21E	Uintah	UT
Gypsum Hills Unit Fed. #4	Gypsum Hills	19	8S	21E	Uintah	UT
Gypsum Hills Unit Fed. #6	Gypsum Hills	20	8S	21E	Uintah	UT
Hamblin 1-26A2	Bluebell	26	1S	2W	Duchesne	UT
Hamblin 2-26A2	Bluebell	26	1S	2W	Duchesne	UT
Holmes/Federal #1	Horseshoe Bend	5	7S	22E	Uintah	UT
Jenks Robertson Ute 1-1B1	Bluebell	1	2S	1W	Uintah	UT
Joan Federal #1	Undesignated	19	7S	21E	Uintah	UT
John 1-3B2	Bluebell	3	2S	2W	Duchesne	UT
John 2-3B2	Bluebell	3	2S	2W	Duchesne	UT

06/27/85
leases gulf operated/file2

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions
verse side)
070806

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	7. UNIT AGREEMENT NAME Brennan Bottoms
2. NAME OF OPERATOR Chevron U.S.A. Inc.	8. FARM OR LEASE NAME Brennan/Federal
3. ADDRESS OF OPERATOR P.O. Box 599, Denver, Colorado 80201	9. WELL NO. 6
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 591' FWL and 835' FNL (NW/NW)	10. FIELD AND POOL, OR WILDCAT Brennan Bottoms
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 19, T7S, R21E
14. PERMIT NO. 43-047-30109	12. COUNTY OR PARISH Uintah
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4679' GR	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

(Other) Request Approval to Flare Gas ☒

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Approval is requested to flare up to 25 MCF/D of casinghead gas at the wellsite. The well is currently flaring less than 1 MCF/D.

RECEIVED
JUL 03 1986

DIVISION OF
OIL, GAS & MINING

3-BLM
3-State
1-BIA
1-BJK
1-GDE
3-Drilling
1-File

18. I hereby certify that the foregoing is true and correct

SIGNED

John F. Enright

TITLE Associate Environmental
Specialist

DATE June 30, 1986

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR
Chevron U.S.A. Inc.

3. ADDRESS OF OPERATOR
P. O. Box 599, Denver, CO 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
591' FWL and 835' FNL NW $\frac{1}{4}$ NW $\frac{1}{4}$

14. PERMIT NO.
API 43-047-30109

15. ELEVATIONS (Show whether OF, RT, GR, etc.)
KB 4691'

5. LEASE DESIGNATION AND SERIAL NO.

Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

102009

7. UNIT AGREEMENT NAME

Brennan Bottoms

8. FARM OR LEASE NAME

Brennan / Federal

9. WELL NO.

6

10. FIELD AND POOL, OR WILDCAT

Brennan Bottoms-Green River

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

S 19, T7S, R21E

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other)

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

It is proposed to add perforations, acid stimulate and return the well to production as follows:

1. MIRU. Pull rods and pump. N/U BOPE and test. Pull production string.
2. Clean out to PBTD @ 6975'.
3. Perforate the following intervals w/4 SPF from Schlum. FDC-GR dated 8/9/71:

Interval
6730-38
6705-16
6694-6700
6682-86
6650-58
6630-36

4. Acidize perms @ 6682-6746' with 4000 gals 15% HCl.
5. Acidize perms @ 6630-58' with 2000 gals 15% HCl.
6. Swab back load from perms @ 6630-6746'.
7. Run production tubing. N/D BOPE. N/U wellhead.
8. Run pump and rods. Release rig and return well to production.

3 - BLM
3 - State
1 - FEM

1 - MKD
3 - Drlg
1 - File

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE Office Assistant

DATE 10/9/87

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 10-16-87

BY: John R. Bay

*See Instructions on Reverse Side

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for that purpose.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. Fee <u>POW/GRN</u>	
2. NAME OF OPERATOR <u>Chevron U.S.A. Inc. Room 11111</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME <u>030741</u>	
3. ADDRESS OF OPERATOR <u>P. O. Box 599 Denver, CO 80201</u>		7. UNIT AGREEMENT NAME <u>Brennan Bottoms</u>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <u>591' FWL 835' FNL (NW$\frac{1}{4}$NW$\frac{1}{4}$)</u>		8. FARM OR LEASE NAME <u>Brennan/Federal</u>	
14. PERMIT NO. <u>43-047-30109</u>		9. WELL NO. <u>6</u>	
15. ELEVATIONS (Show whether DF, RT, OR, etc.) <u>KB 4691</u>		10. FIELD AND POOL, OR WILDCAT <u>Brennan Bottoms-Green River</u>	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <u>Sec. 19, T7S, R21E</u>	
		12. COUNTY OR PARISH <u>Uintah</u>	
		13. STATE <u>Utah</u>	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Brennan Federal #6 was perforated and acidized as follows:

- Moved in Gudac #1 2-18-88. Pulled rods. N/D WH. N/U BOPE and tested. Pulled prod. string.
- Cleaned out to PBTD @ 6871'.
- Perforated 6730-38 (H, H₂); 6705-16 (G₅), 6694-6700 (G₅), 6682-86 (G₄), 6650-58 (G₃), 6630-36 (G₃) @ 4 SPF, 90° Ø correlated to Schl. FDC-GR 8/9/71.
- Acidized perfs 6746-6542 (H₂--G₁) w/6000 gal 15% HCl. Swabbed back.
- Ran production string. Landed tbg @ 6851', BAC @ 6504'.
- N/D BOPE. N/U WH. Ran rods.
- RDMOL 2-23-88. TWOTP.

- 3 - State
- 3 - BLM
- 1 - EEM
- 1 - MKD
- 3 - Drlg
- 1 - PLM
- 1 - Sec. 724-C
- 1 - File

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature]

TITLE Technical Assistant

DATE 2/25/88

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

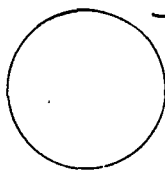
Brennan fdp Sec 19, T7 S0, R 21E Gubly 3/15/89

└─N

propane
tank.

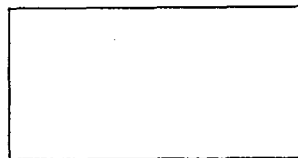


line heater



tank

well
head ○



pump jack

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir
Use "APPLICATION FOR PERMIT--" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well Oil <input type="checkbox"/> Gas <input type="checkbox"/> <input checked="" type="checkbox"/> Well <input type="checkbox"/> Well <input type="checkbox"/> Other <input type="checkbox"/> MULTIPLE WELLS LIST ATTACHED	5. Lease Designation and Serial No.
2. Name of Operator CHEVRON U.S.A. INC.	6. If Indian, Allottee or Tribe Name N/A
3. Address and Telephone No 11002 E. 17500 S. VERNAL, UT 84078-8526 (801) 781-4300	7. If Unit or CA, Agreement Designation BRENNAN BOTTOM UNIT 14-08-001-556
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)	8. Well Name and No.
	9. API Well No.
	10. Field and Pool, or Exploratory Area BRENNAN BOTTOM-GREEN RIVER
	11. County or Parish, State UINTAH, UTAH

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	
TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>CHANGE OF OPERATOR</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note) Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

As of January 1, 2000 Chevron U.S.A. Inc. resigns as Operator of the Brennan Bottoms Unit.
The Unit number is 14-08-001-556 effective June 12, 1953.

The successor operator under the Unit Agreement will be
Shenandoah Energy Inc.
475 17th Street, Suite 1000
Denver, CO 80202

Agreed and accepted to this 29th day of December, 1999

Shenandoah Energy Inc.

By: Mitchell L. Solich
Mitchell L. Solich
President

RECEIVED

DEC 30 1999

DIVISION OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct.
Signed A. E. Wacker A. E. Wacker Title Assistant Secretary Date 12/29/1999

(This space for Federal or State office use)

Approved by: _____ Title _____ Date _____

Conditions of approval, if any

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155

RECEIVED

FEB 07 2000

DIVISION OF
OIL, GAS AND MINING

IN REPLY REFER TO
UT-931

February 4, 2000

Shenandoah Energy Inc.
Attn: Rae Cusimano
475 17th Street, Suite 1000
Denver, Colorado 80202

Re: Brennan Bottom Unit
Uintah County, Utah

Gentlemen:

On December 30, 1999, we received an indenture whereby Chevron U.S.A. Inc. resigned as Unit Operator and Shenandoah Energy Inc. was designated as Successor Unit Operator for the Brennan Bottom Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective February 4, 2000. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Brennan Bottom Unit Agreement.

Your statewide (Utah) oil and gas bond No. 0969 will be used to cover all operations within the Brennan Bottom Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks
Chief, Branch of Fluid Minerals

Enclosure

cc: Chevron U.S.A. Inc.

bcc: Field Manager - Vernal (w/enclosure)
Division of Oil, Gas & Mining
Minerals Adjudication Group U-932
File - Brennan Bottom Unit (w/enclosure)
MMS - Data Management Division
Agr. Sec. Chron
Fluid Chron

UT931:TAThompson:tt:2/4/00

[REDACTED]	4-KAS
2. CDW	5-SJ
3. JLT	6-FILE

Merger

01/01/2000

Account No. N4235

Unit: BRENNAN BOTTOM

[illegible]

3. The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 08/15/2000

4. Is the new operator registered in the State of Utah: YES Business Number: 224885

5. If **NO**, the operator was contacted contacted on: _____

6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the (merger, name change, or operator change for all wells listed on Federal or Indian leases on: 02/04/2000

7. **Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: N/A

8. **Federal and Indian Communization Agreements ("CA"):** The BLM or the BIA has approved the operator change for all wells listed involved in a CA on: N/A

9. **Underground Injection Control ("UIC"** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 08/15/2000

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 08/15/2000

2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 08/15/2000

3. Bond information entered in RBDMS on: N/A

4. Fee wells attached to bond in RBDMS on: N/A

STATE BOND VERIFICATION:

1. State well(s) covered by Bond No.: 159261960

FEE WELLS - BOND VERIFICATION/LEASE INTEREST OWNER NOTIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed has furnished a bond: YES

2. The **FORMER** operator has requested a release of liability from their bond on: N/A
The Division sent response by letter on: N/A

3. (R649-2-10) The **FORMER** operator of the Fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 08/15/2000

FILMING:

1. All attachments to this form have been **MICROFILMED** on: 3.5.01

FILING:

1. **ORIGINALS/COPIES** of all attachments pertaining to each individual well have been filled in each well file on: _____

COMMENTS:

Well	Lease	API Number	Status	Type	Location for Sundry an
BRENNAN FEDERAL 1	U-065342	43-047-15417	A	OIL	1980' FSL & 660' FEL (NE SE) SECTION 13, T7S, I
BRENNAN FEDERAL 5	SL-071745	43-047-15420	A	INJ	1969' FNL & 1833' FWL (SE NW) SECTION 18, T7S, I
BRENNAN FEDERAL 6	FEE	43-047-30109	A	OIL	835' FNL & 591' FWL (NWNW) SECTION 19, T7S, I
BRENNAN FEDERAL 9	U-071745	43-047-32477	A	OIL	1980' FSL & 1980' FEL (NW SE) SECTION 18, T7S, I
BRENNAN FEDERAL 10	ML-3068	43-047-32771	A	OIL	660' FNL & 1980' FEL (NW NE) SECTION 19, T7S, I
BRENNAN FEDERAL 11	U-071745	43-047-32772	A	INJ	649' FSL & 1886' FWL (SE SW) SECTION 18, T7S, I
BRENNAN FEDERAL 12	U-046	43-047-32779	A	OIL	726' FNL & 2200' FEL (NWNW) SECTION 18, T7S, I
BRENNAN FEDERAL 14	U-046	43-047-32774	A	OIL	744' FNL & 461' FWL (NW NW) SECTION 18, T7S, I

May 28, 2003

Division of Oil, Gas, & Mining
1594 West North Temple, Suite 1210
P. O. Box 145801
Salt Lake City, Utah 84114-5801

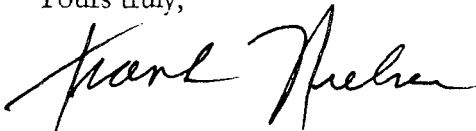
Attention: John Baza/Jim Thompson

Gentlemen:

This will serve as notice that through the internal corporate changes described below, activities formerly conducted in the name of either Shenandoah Operating Company, LLC (SOC) and/or Shenandoah Energy, Inc. (SEI) will hereafter be conducted in the name of QEP Uinta Basin, Inc.: i) the Shenandoah entities were purchased in July, 2001 by Questar Market Resources, Inc., which is a mid-level holding company for the non-utility businesses of Questar Corporation, ii) Shenandoah Operating Company, LLC has now been merged into Shenandoah Energy, Inc. (SEI), iii) Shenandoah Energy, Inc. has now been re-named **QEP Uinta Basin, Inc.** pursuant to a State of Delaware Amended and Restated Certificate of Incorporation, iv) the same employees will continue to be responsible for operations of the former SOC and SEI properties, both in the field and in the office. Accordingly, the change involves only an internal corporate name change and no third party change of operator is involved. Please alter your records to reflect the entity name change. Attached is a spreadsheet listing all wells affected by this change.

Should you have any questions, please call me at 303 - 308-3056.

Yours truly,



Frank Nielsen
Division Landman

Enclosure

RECEIVED

JUN 02 2003

DIV. OF OIL, GAS & MINING

SEI (N235) to QEP (N2460) BRENNAN BOTTOM UNIT

well_name	Sec	T	R	api	Entity	Lease Type	type	stat	
BRENNAN FED 5	18	070S	210E	4304715420	5261	Federal	WI	A	
BRENNAN FED 11	18	070S	210E	4304732772	5261	Federal	WI	A	
BRENNAN FED 1	13	070S	200E	4304715417	5261	Federal	OW	P	
BRENNAN FED 9	18	070S	210E	4304732477	5261	Federal	OW	P	
BRENNAN FED 14	18	070S	210E	4304732774	5261	Federal	OW	P	
BRENNAN FED 12	18	070S	210E	4304732779	5261	Federal	OW	P	
BRENNAN FED 10	19	070S	210E	4304732771	5261	State	OW	P	
BRENNAN FED 6	19	070S	210E	4304730109	5261	Fee	OW	P	



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155

IN REPLY REFER TO
UT-922

June 9, 2003

QEP Uinta Basin, Inc.
1050 17th Street, Suite 500
Denver, Colorado 80265

Re: Brennan Bottom Unit
Uintah County, Utah

Gentlemen:

On May 30, 2003, we received an indenture dated February 1, 2003, whereby Shenandoah Energy, Inc. changed its name and QEP Uinta Basin, Inc. was designated as Successor Unit Operator for the Brennan Bottom Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective June 9, 2003. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under Brennan Bottom Unit Agreement.

Your nationwide (Eastern States) oil and gas bond No. B000024 will be used to cover all operations within the Brennan Bottom Unit.

It is requested that you notify all interested parties of the name change of unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks
Chief, Branch of Fluid Minerals

Enclosure

bcc: Field Manager - Vernal (w/enclosure)
SITLA
Division of Oil, Gas & Mining
Minerals Adjudication Group
File – Brennan Bottom Unit (w/enclosure)
Agr. Sec. Chron
Fluid Chron

UT922:TAThompson:tt:6/9/03

6. (R649-9-2) Waste Management Plan has been received on:

IN PLACE

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: 7/21/2003

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: 7/21/2003

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 8/28/2003
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 8/28/2003
3. Bond information entered in RBDMS on: n/a
4. Fee wells attached to bond in RBDMS on: n/a

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: 965-003-032

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: ESB000024

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 799446

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 965-003-033
2. The **FORMER** operator has requested a release of liability from their bond on: n/a
The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

JUL 07 2003

3104 (932.34)WF
Nationwide Bond ESB000024

NOTICE

QEP Uinta Basin, Inc.
1050 17th Street Suite 500
Denver, Colorado 80265

:
: Oil and Gas
: lease
:

Name Change Recognized

Acceptable evidence has been filed in this office concerning the name change of Shenandoah Energy Incorporated into QEP Uinta Basin, Incorporated. QEP Uinta Basin, Incorporated is the surviving entity. This name change is recognized effective April 17, 2003.

Eastern States will notify the Minerals Management Service and all applicable Bureau of Land Management offices of the change by a copy of this notice.

If you identify other leases in which the merging entity maintain an interest, please contact this office and we will appropriately document those files with a copy of this notice.

If you have any questions, please contact Bill Forbes at 703-440-1536.

S/Wilbert B. Forbes

Wilbert B. Forbes
Land Law Examiner
Branch of Use Authorization
Division of Resources Planning,
Use and Protection

bc: JFO,MMS, ES RF, 930 RF, 932.34 RF, E-932: wbf:07 /07/03:440-1536/ QEP Uinta Basin
MFO



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Robert L. Morgan
Executive Director

Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
(801) 538-5340 telephone
(801) 359-3940 fax
(801) 538-7223 TTY
www.nr.utah.gov

September 22, 2003

Jodie Sundquist
Shenandoah Energy, Inc.
1050 17th St., Suite 500
Denver, CO 80265

Subject: Notification of Sale or Transfer of Fee Lease Interest

Dear Ms. Sundquist:

The Division has processed your request for an operator change due to the merger of Shenandoah Energy, Inc. to QEP, Uintah Basin, Inc. effective February 1, 2003 for the following fee wells:

NAME	SEC	TWN	RNG	API NO
Brennan Fed 6	19	07S	21E	43-047-30109
GB 6W-25-8-21	25	08S	21E	43-047-34121
GB 7W-25-8-21	25	08S	21E	43-047-34122
GB 11W-30-8-22	30	08S	22E	43-047-34392

Utah Administrative Code Rule R649-2-10 states: "The owner of a lease shall provide notification to any person with an interest in such lease, when all or part of that interest in the lease is sold or transferred".

This letter is written to advise you of your responsibility to notify all individuals with an interest in these leases (royalty interest and working interest) of the changer. Please provide written documentation of this notification to:

Utah Royalty Owners Association
PO Box 1292
Roosevelt, Utah 84066

Your assistance in this matter is appreciated.

Sincerely,

Earlene Russell
Earlene Russell
Engineering Technician

cc: Utah Royalty Owners Association

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 3

APPLICATION FOR PERMIT TO DRILL

1A. TYPE OF WORK: DRILL <input type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input checked="" type="checkbox"/>		5. MINERAL LEASE NO: MULTIPLE	6. SURFACE: FEE
B. TYPE OF WELL <input checked="" type="checkbox"/> OIL <input type="checkbox"/> GAS OTHER _____ <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE		7. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	
2. NAME OF OPERATOR: QUESTAR EXPLORATION & PRODUCTION CO.		8. UNIT OF CA AGREEMENT NAME: BRENNAN BOTTOMS	
3. ADDRESS OF OPERATOR: 11002 E. 17500 SO. CITY VERNAL STATE UT ZIP 84078		9. WELL NAME and NUMBER: BRENNAN 6	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 835' FNL 594' FWL, LOT 1, SEC. 19, T7S, R21E AT PROPOSED PRODUCING ZONE: SEE ATTACHED SHEET FOR MULTIPLE LEASE & BOTTOM HOLE		10. FIELD AND POOL, OR WILDCAT: BRENNAN BOTTOMS 560	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 23 + 1 - MILES SOUTHEAST OF VERNAL, UTAH		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: 19 7S 21E	
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE(FEET) 594' +/-		12. COUNTY: UINTAH	13. STATE: UTAH
16. NUMBER OF ACRES IN LEASE: 180.81		17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET)		20. BOND DESCRIPTION: ESB0000024	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 4678.0' GL		23. ESTIMATED DURATION: 20 DAYS	
22. APPROXIMATE DATE WORK WILL START: ASAP			

24 PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
	SEE ATTACHED 8-POINT DRILLING PLAN		SEE ATTACHED 8-POINT DRILLING PLAN

25 ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERATION GENERAL RULES:

- | | |
|--|---|
| <input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER | <input checked="" type="checkbox"/> COMPLETE DRILLING PLAN |
| <input checked="" type="checkbox"/> EVIDNECE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER | <input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OV |

NAME (PLEASE PRINT) <u>Laura Bills</u>	TITLE <u>Regulatory Affairs</u>
SIGNATURE <u><i>Laura Bills</i></u>	DATE <u>10/13/08</u>

(This space for State use only)

API NUMBER ASSIGNED: <u>43-047-30109</u>	APPROVAL: _____
--	-----------------

(11/2001)

Approved by the
Utah Division of
Oil, Gas and Mining

(See Instruction on Reverse Side)

Date: 12-30-08
By: *[Signature]*

CONFIDENTIAL
RECEIVED
OCT 16 2008
DIV. OF OIL, GAS & MINING

Additional Operator Remarks for Bottom Hole Location and Lease Designation:

BRENNAN 6 (SURFACE LOCATION) 618743X 40.201762
LEASE # FEE 44508744 -109.604855
835' FNL 594' FWL, LOT 1, Section 19, T7S, R21E *SLWNE*

BOTTOM HOLE LOCATION (LATERAL # 1) 619749X 40.197515
LEASE # UTU-75760 44504184 -109.593128
2400' FNL 1300' FEL, LOT 4, SECTION 19, T7S, R21E

BOTTOM HOLE LOCATION (LATERAL # 2) 617716X 40.198130
LEASE # UTSL-065429 44504554 -109.617000
2100' FNL 2500' FWL, SENW, SECTION 24, T7S, R20E

BOTTOM HOLE LOCATION (LATERAL # 3) 618060X 40.193298
LEASE # UTSL-065429 44499244 -109.613033
1600' FSL 1700' FEL, LOT 10, SECTION 24, T7S, R20E *NWSE*

T7S, R21E, S.L.B.&M.

QUESTAR EXPLR. & PROD.

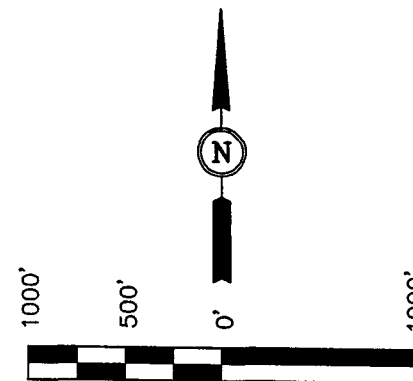
Well location, BRENNAN #6, located as shown in the NW 1/4 NW 1/4 of Section 19, T7S, R21E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

BENCH MARK 38EAM LOCATED IN THE SW 1/4 SW 1/4 OF SECTION 9, T7S, R20E, S.L.B.&M. TAKEN FROM THE PELICAN LAKE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4942 FEET.

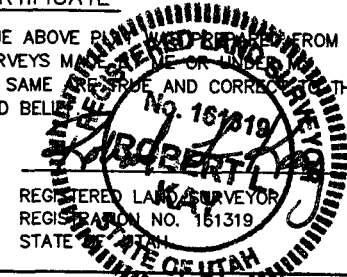
BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



SCALE CERTIFICATE

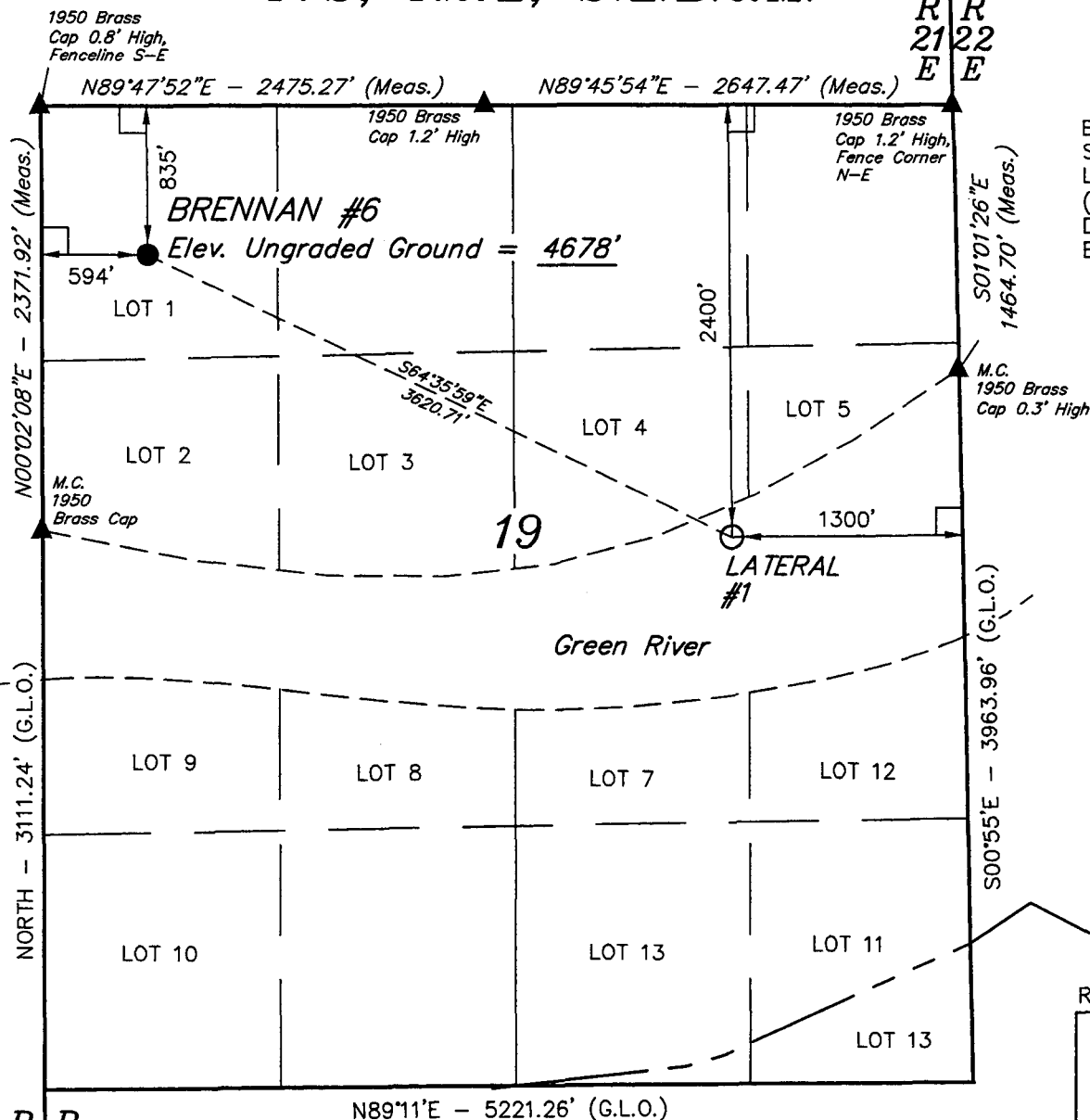
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



REVISED: 03-06-08

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 11-05-07	DATE DRAWN: 11-14-07
PARTY D.A. T.A. L.K.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE QUESTAR EXPLR. & PROD.	



LEGEND:

└─┘ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

(AUTONOMOUS NAD 83)
LATITUDE = 40°12'06.12" (40.201700)
LONGITUDE = 109°36'19.82" (109.605506)
(AUTONOMOUS NAD 27)
LATITUDE = 40°12'06.25" (40.201736)
LONGITUDE = 109°36'17.33" (109.604814)

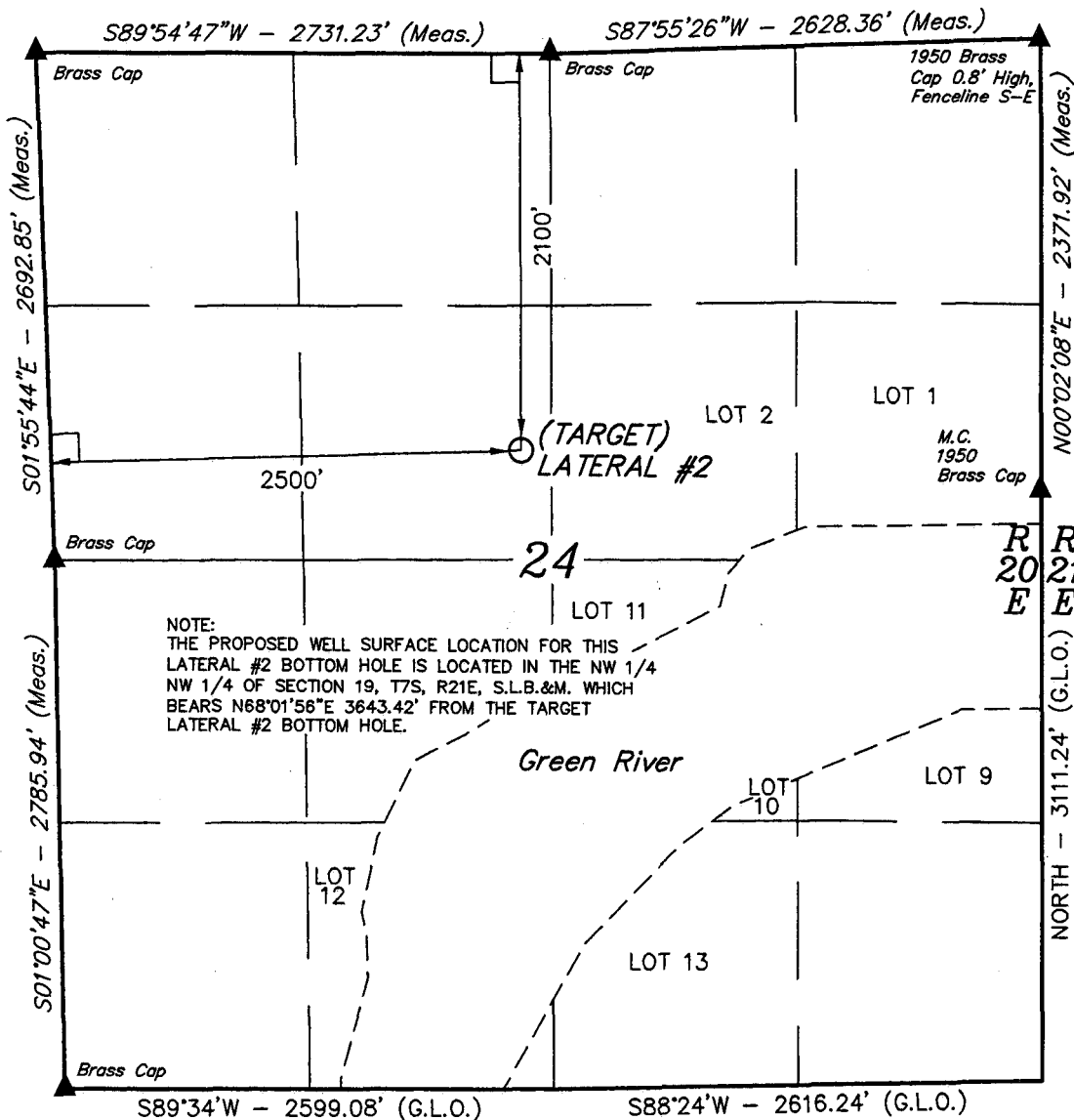
T7S, R20E, S.L.B.&M.

QUESTAR EXPLR. & PROD.

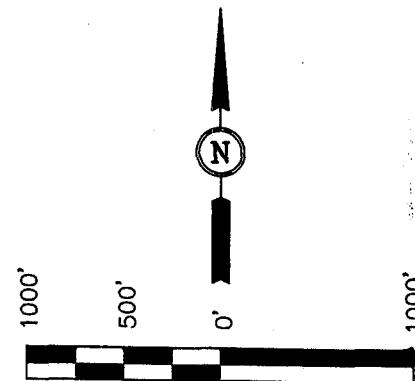
Well location, BRENNAN #6 (LATERAL #2), located as shown in the SE 1/4 NW 1/4 of Section 24, T7S, R20E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

BENCH MARK 38EAM LOCATED IN THE SW 1/4 SW 1/4 OF SECTION 9, T7S, R20E, S.L.B.&M. TAKEN FROM THE PELICAN LAKE, QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4942 FEET.

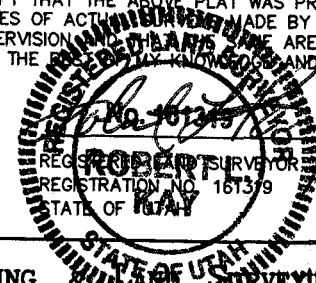


NOTE:
THE PROPOSED WELL SURFACE LOCATION FOR THIS LATERAL #2 BOTTOM HOLE IS LOCATED IN THE NW 1/4 NW 1/4 OF SECTION 19, T7S, R21E, S.L.B.&M. WHICH BEARS N68°01'56\"/>



SCALE CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEY MADE BY ME OR UNDER MY SUPERVISION. THE PLAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



REVISED: 06-19-08
REVISED: 03-04-08

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

NAD 83 (TARGET BOTTOM HOLE)	
LATITUDE = 40°11'52.68" (40.197967)	
LONGITUDE = 109°37'03.37" (109.617603)	
NAD 27 (TARGET BOTTOM HOLE)	
LATITUDE = 40°11'52.81" (40.198003)	
LONGITUDE = 109°37'00.87" (109.616908)	

UINTAH ENGINEERING & SURVEYING 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (435) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 11-05-07	DATE DRAWN: 11-14-07
PARTY D.A. T.A. L.K.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE QUESTAR EXPLR. & PROD.	

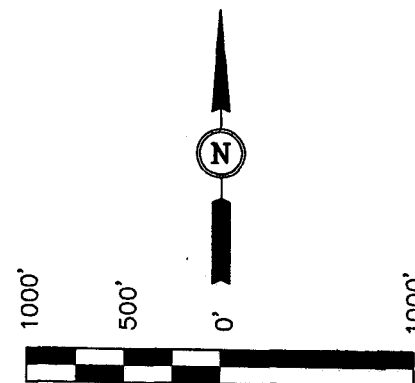
T7S, R21E, S.L.B.&M.

QUESTAR EXPLR. & PROD.

Well location, BRENNAN #6, located as shown in the NW 1/4 NW 1/4 of Section 19, T7S, R21E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

BENCH MARK 38EAM LOCATED IN THE SW 1/4 SW 1/4 OF SECTION 9, T7S, R20E, S.L.B.&M. TAKEN FROM THE PELICAN LAKE, QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4942 FEET.



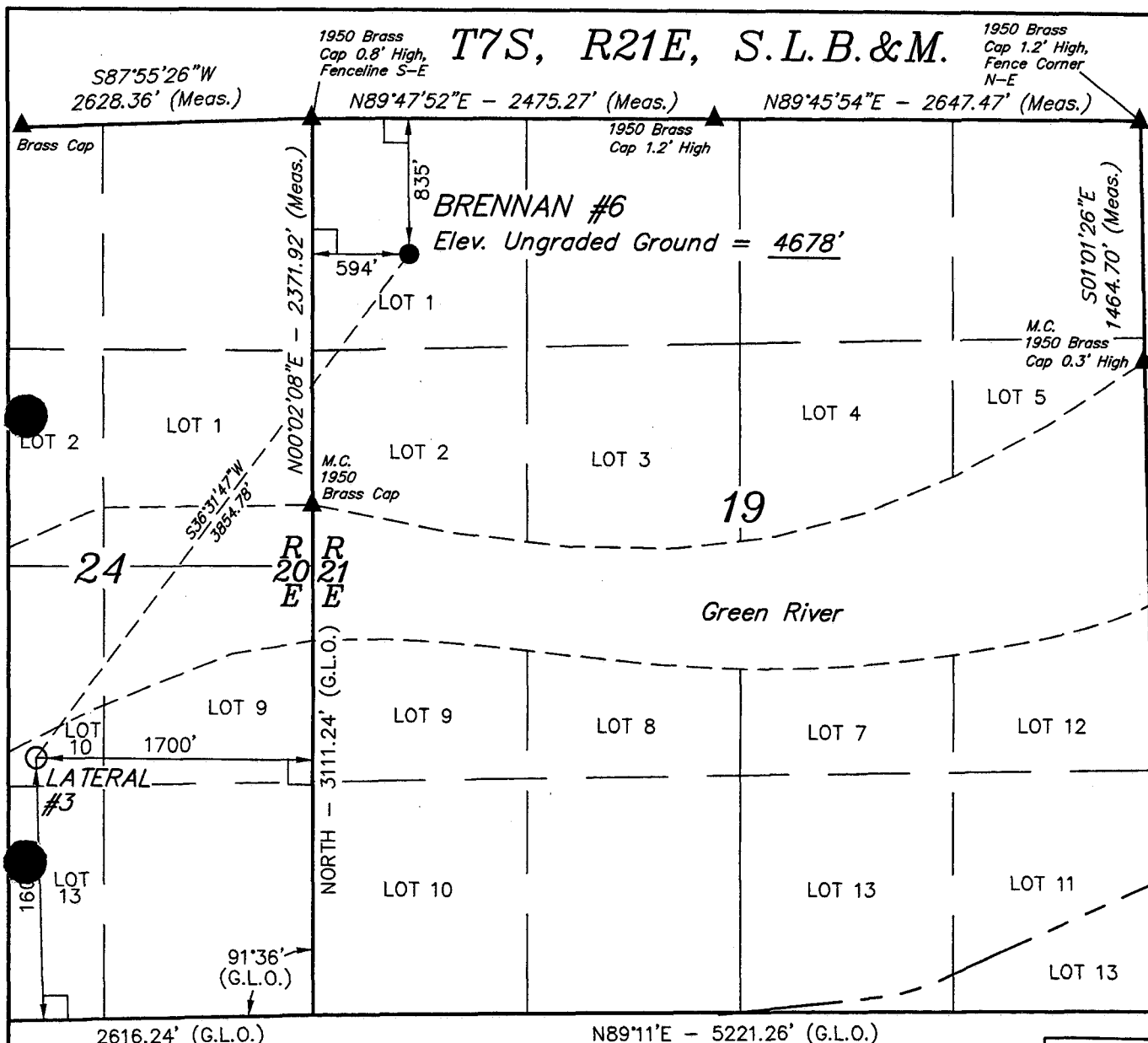
SCALE
CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEY MADE BY ME AND UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 16151
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 11-05-07	DATE DRAWN: 11-14-07
PARTY D.A. T.A. L.K.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE QUESTAR EXPLR. & PROD.	



BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

(AUTONOMOUS NAD 83)
LATITUDE = 40°12'06.12" (40.201700)
LONGITUDE = 109°36'19.82" (109.605506)
(AUTONOMOUS NAD 27)
LATITUDE = 40°12'06.25" (40.201736)
LONGITUDE = 109°36'17.33" (109.604814)

REVISED: 03-04-08

LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

BOPE REVIEW**Questar Brennan 6 Lateral #1 API 43-047-30109-0100**

Well Name	Questar Brennan 6 Lateral #1 API 43-047-30109-0100		
	String 1	String 2	String 3
Casing Size (")	8 5/8	5 1/2	3 1/2
Setting Depth (TVD)	333	7033	6706
Previous Shoe Setting Depth (TVD)	40	333	7033
Max Mud Weight (ppg)	8.33	9.5	9.8
BOPE Proposed (psi)	0	5000	3000
Casing Internal Yield (psi)	2950	5320	13970
Operators Max Anticipated Pressure (psi)	3455		9.9 ppg

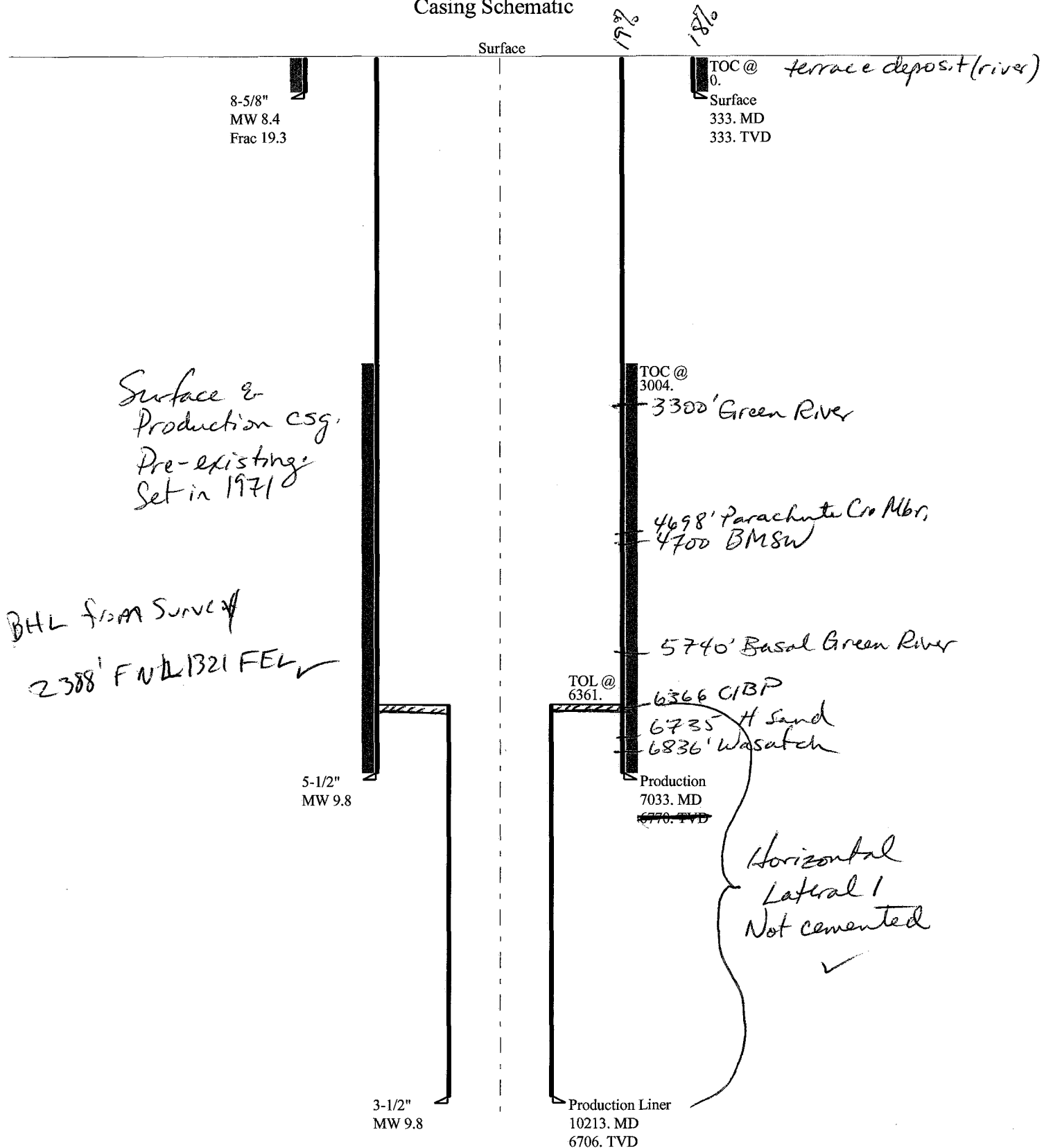
Calculations	String 1	8 5/8 "	
Max BHP [psi]	.052*Setting Depth*MW =	144	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	104	NO <i>existing</i>
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	71	NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	80	NO
Required Casing/BOPE Test Pressure		333 psi	
*Max Pressure Allowed @ Previous Casing Shoe =		40 psi	*Assumes 1psi/ft frac gradient

Calculations	String 2	5 1/2 "	
Max BHP [psi]	.052*Setting Depth*MW =	3474	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	2630	YES <i>existing</i>
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	1927	YES
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	2000	NO
Required Casing/BOPE Test Pressure		3000 psi	
*Max Pressure Allowed @ Previous Casing Shoe =		333 psi	*Assumes 1psi/ft frac gradient

Calculations	String 3	3 1/2 "	
Max BHP [psi]	.052*Setting Depth*MW =	3417	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	2613	YES ✓
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	1942	YES
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	3489	YES ✓
Required Casing/BOPE Test Pressure		3000 psi	
*Max Pressure Allowed @ Previous Casing Shoe =		5320 psi	*Assumes 1psi/ft frac gradient

43047301090100 Questar Brennan 6 Lat 1

Casing Schematic



Well name:

43047301090100 Questar Brennan 6 Lat 1Operator: **Questar Exploration & Production, CO.**String type: **Surface**

Project ID:

43-047-30109-0100Location: **Uintah County****Design parameters:****Collapse**Mud weight: 8.400 ppg
Design is based on evacuated pipe.**Minimum design factors:****Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 80 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 333 ft

Cement top: Surface

BurstMax anticipated surface pressure: 440 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 480 psi

No backup mud specified.

Tension:8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)Tension is based on buoyed weight.
Neutral point: 291 ft**Non-directional string.****Re subsequent strings:**Next setting depth: 6,770 ft
Next mud weight: 9.800 ppg
Next setting BHP: 3,446 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 500 ft
Injection pressure: 500 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	333	8.625	24.00	K-55	ST&C	333	333	7.972	119.1
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	145	1370	9.428	480	2950	6.15	7	263	37.66 J

Prepared Helen Sadik-Macdonald
by: Div of Oil, Gas & MiningPhone: 801-538-5357
FAX: 801-359-3940Date: December 29, 2008
Salt Lake City, Utah**Remarks:**

Collapse is based on a vertical depth of 333 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	43047301090100 Questar Brennan 6 Lat 1	
Operator:	Questar Exploration & Production, CO.	
String type:	Production	Project ID: 43-047-30109-0100
Location:	Uintah County	

Design parameters:
Collapse

Mud weight: 9.800 ppg
Design is based on evacuated pipe.

Minimum design factors:
Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 170 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,500 ft

Cement top: 3,004 ft

Burst

Max anticipated surface pressure: 1,957 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 3,446 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 5,764 ft

Directional Info - Build & Hold

Kick-off point 6354 ft
Departure at shoe: 441 ft
Maximum dogleg: 13.77 °/100ft
Inclination at shoe: 91.15 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	7033	5.5	17.00	K-55	LT&C	6770	7033	4.767	918

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	3446	4910	1.425	3446	5320	1.54	98	272	2.78 J

Prepared Helen Sadik-Macdonald
by: Div of Oil, Gas & Mining

Phone: 801-538-5357
FAX: 801-359-3940

Date: December 29, 2008
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 6770 ft, a mud weight of 9.8 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

Well name:

43047301090100 Questar Brennan 6 Lat 1Operator: **Questar Exploration & Production, CO.**String type: **Production Liner**

Project ID:

43-047-30109-0100Location: **Uintah County****Design parameters:****Collapse**Mud weight: 9.800 ppg
Design is based on evacuated pipe.**Minimum design factors:****Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 169 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,500 ft**Burst**Max anticipated surface
pressure: 1,939 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 3,414 psi

No backup mud specified.

Tension:API - tubing: 1.60 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.

Neutral point: 6,701 ft

Liner top: 6,361 ft

Directional Info - Build & HoldKick-off point 6354 ft
Departure at shoe: 3621 ft
Maximum dogleg: 13.77 °/100ft
Inclination at shoe: 91.15 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft ³)
1	3813	3.5	9.20	P-110	Lock-It Eight	6706	10213	2.867	186.2
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	3414	13530	3.963	3428	13970	4.08	2	285	99.99 J

Prepared Helen Sadik-Macdonald
by: Div of Oil, Gas & MiningPhone: 801-538-5357
FAX: 801-359-3940Date: December 29, 2008
Salt Lake City, Utah**Remarks:**

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 6706 ft, a mud weight of 9.8 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

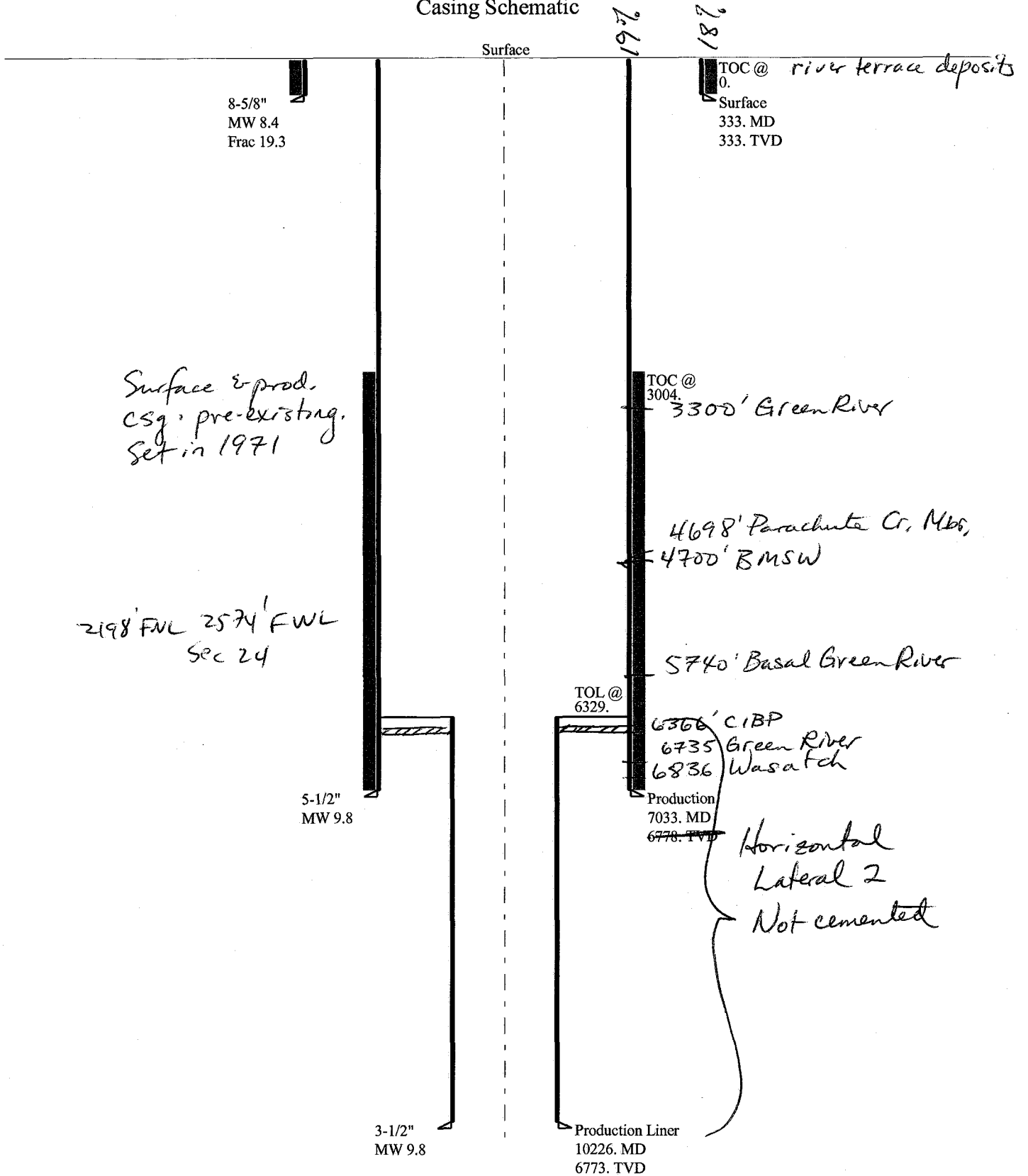
Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

43047301090200 Questar Brennan 6 Lat 2

Casing Schematic



Well name:

43047301090200 Questar Brennan 6 Lat 2Operator: **Questar Exploration & Production, CO.**String type: **Production Liner**

Project ID:

43-047-30109-0200Location: **Uintah County****Design parameters:****Collapse**Mud weight: 9.800 ppg
Design is based on evacuated pipe.**Minimum design factors:****Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 170 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,500 ft**Burst**Max anticipated surface
pressure: 1,958 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 3,448 psi

No backup mud specified.

Tension:API - tubing: 1.60 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.

Neutral point: 6,779 ft

Liner top: 6,329 ft

Directional Info - Build & HoldKick-off point 6322 ft
Departure at shoe: 3644 ft
Maximum dogleg: 12.56 °/100ft
Inclination at shoe: 90.1 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	3926	3.5	9.20	P-110	Lock-It Eight	6773	10226	2.867	191.7
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	3448	13530	3.924	3449	13970	4.05	4	285	76.50 J

Prepared Helen Sadik-Macdonald
by: Div of Oil, Gas & MiningPhone: 801-538-5357
FAX: 801-359-3940Date: December 29, 2008
Salt Lake City, Utah**Remarks:**

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 6773 ft, a mud weight of 9.8 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

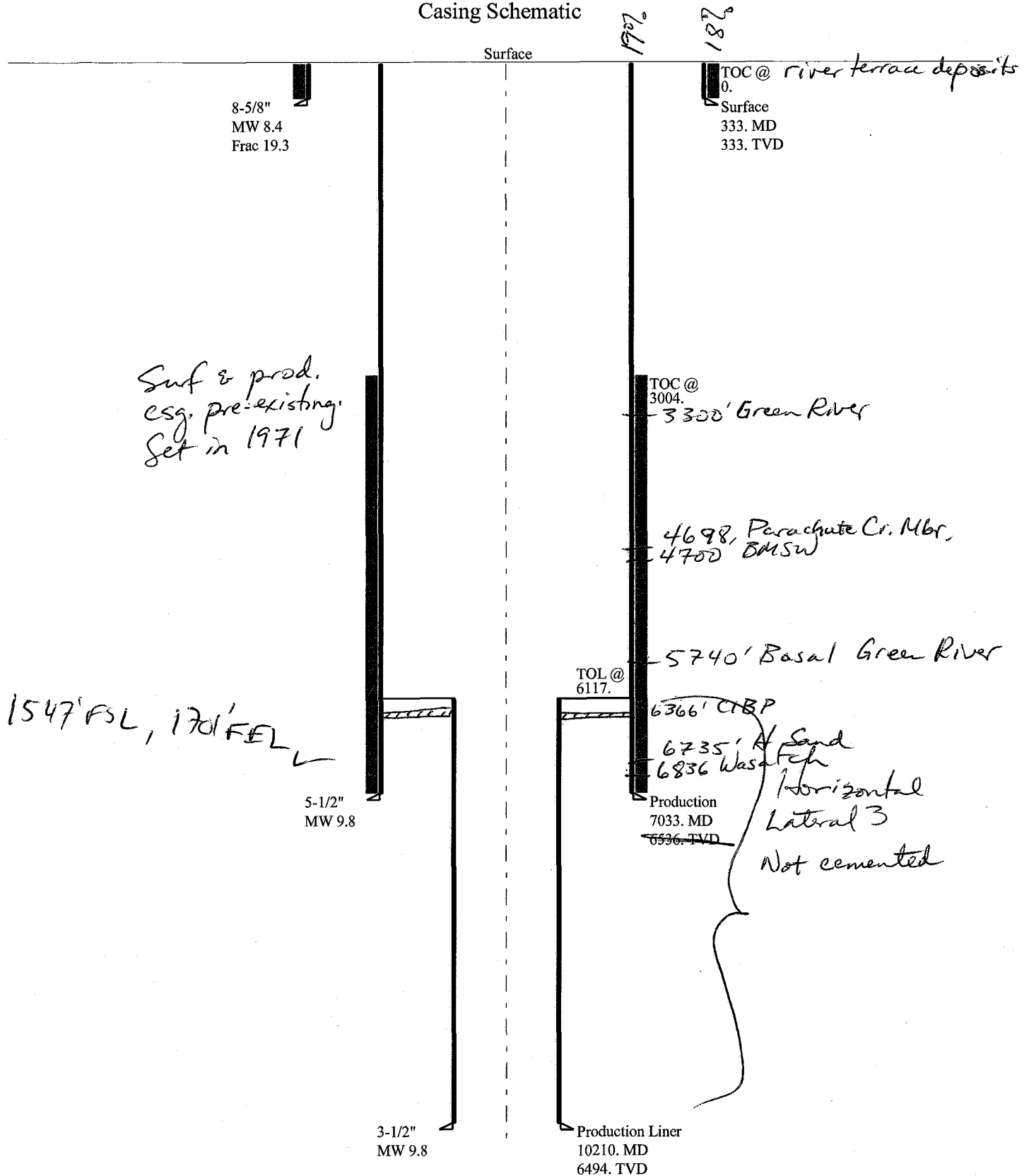
Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

43047301090300 Questar Brennan 6 Lat 3

Casing Schematic



Well name:	43047301090300 Questar Brennan 6 Lat 3	
Operator:	Questar Exploration & Production, CO.	
String type:	Production Liner	Project ID: 43-047-30109-0300
Location:	Uintah County	

Design parameters:
Collapse

Mud weight: 9.800 ppg
Design is based on evacuated pipe.

Minimum design factors:
Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 166 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,500 ft

Burst

Max anticipated surface pressure: 1,877 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 3,306 psi

No backup mud specified.

Tension:

API - tubing: 1.60 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 6,483 ft

Liner top: 6,117 ft

Directional Info - Build & Hold

Kick-off point 6110 ft
Departure at shoe: 3855 ft
Maximum dogleg: 13.35 °/100ft
Inclination at shoe: 90.75 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	4110	3.5	7.70	J-55	N/U 10rd	6494	10210	2.943	211

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	3306	5970	1.806	3316	5940	1.79	3	90	34.56 J

Prepared Helen Sadik-Macdonald
by: Div of Oil, Gas & Mining

Phone: 801-538-5357
FAX: 801-359-3940

Date: December 29, 2008
Salt Lake City, Utah

Remarks:

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 6494 ft, a mud weight of 9.8 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.



Questar Exploration and Production Company

11002 East 17500 South

Vernal, UT 84078

Tel 435 781 4300 • Fax 435 781 4329

December 1, 2008

Diana Mason
Division of Oil, Gas & Mining
1594 W. N. Temple STE 1210
Salt Lake City, UT 84114-5801

RE: Surface Agreement for Brennan 6

Dear Diana:

Attached you will find the letter agreement confirming that we have surface approval for the drilling of the above referenced well.

In addition to this, the mailing address for Mary C. Nielson is different from what our records show. The correct address is:

Mary Nielson
238 East 3100 South
Bountiful, UT 84010
Phone - 801-298-3763

Please let me know if there is anything else we need to do to get this permit completed.

Sincerely,

A handwritten signature in cursive script that reads "Jan Nelson".

Jan Nelson
Regulatory Affairs



Questar Exploration and Production Company

Independence Plaza

1050 17th Street, Suite 500

Denver, CO 80265

Tel 303 672 6900 • Fax 303 294 9632

Rocky Mountain Region

November 12, 2008

Nelden C. Nielson Enterprise
c/o Mary Nielson
P.O. Box 717
Salt Lake City, UT 84110

Eric Fisher

P.O. Box 65
Altonah, UT 84002
phone # 307-252-2007

Re: Brennan #6 Well
T7S, R21E, SLM
Section 19: Lot 1 (aka NWNW)
Uintah County, Utah

Ladies and Gentlemen:

Questar Exploration and Production Company ("Questar") is the operator of the Brennan #6 Well located on Lot 1, aka the NW/4NW/4, of Section 19 in Township 7 South, Range 21 East, SLM, Uintah County, Utah, ("Said Land"). Nelden C. Nielson Enterprise is the Surface Owner of Said Land and is currently in the process of selling to Eric Fisher (herein collectively referred to as "Owners").

Owners have been advised that Questar intends to re-enter the Brennan #6 for additional operational work. Notwithstanding any agreement to the contrary, Questar and Owners hereby agree on the following terms:

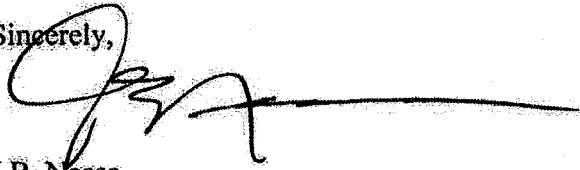
1. Owners hereby grant to Questar the right for it, its agents, employees and contractors, and their agents and employees, to enter upon the surface of Said Land for the purpose of conducting oil and gas exploration, drilling, production and marketing activities on Said Land as are reasonably necessary in connection with such activities..
2. Questar will move the existing flow line a minimum of 10 feet but a maximum of 20 feet off of the current road and will bury the flow line to make a road crossing 50' from the existing cattle guard.
3. Questar will clean out the existing cattle guard and will install a new cattle guard on the west side of Said Lands.
4. Questar will connect the existing fence on the north side of Said Lands with an extended fence on the west side of Said Lands.

5. Questar will gravel and maintain the access road entering Said Lands through the term of this agreement, at its sole cost and expense.
6. Said Lands will be reclaimed back to "Deadman Anchors" on or before April 1, 2009.
7. This agreement shall be for a term commencing on the date this agreement is accepted and agreed to by Owners and terminating at the time Operator, its successors and assigns, ceases to conduct operations on Said Land and has removed all of its equipment therefrom.

If the foregoing meets with your approval, please indicate by executing this letter in the space provided below and returning one copy to the attention of Birgit Roesink at the address above.

Should you have any questions please contact either Jan Nelson at 435-781-4331 or Birgit Roesink at 303-672-9637.

Sincerely,



J.B. Neese
Executive Vice President

Agreed to and accepted this 24 day of November, 2008.

Nelden C. Nielsen Enterprise

By: Nancy Nielsen, Trustee

Agreed to and accepted this 19 day of November, 2008.

Eric Fisher

By: Eric Fisher



Questar Exploration and Production Company

11002 East 17500 South

Vernal, UT 84078

Tel 435 781 4300 • Fax 435 781 4329

October 13, 2008

Dear Diana,

Last Friday (Oct. 10) I mailed out two APD's to have approved, There was a couple of errors on them that Jan and I noticed today. I have made the necessary changes on them and have 2 revised ones enclosed. Please dis-regard the 2 dated Oct. 10.

If you have any questions, Please feel free to call me.

Thank You,

A handwritten signature in cursive script that reads "Laura Bills".

Laura Bills

Associate Regulatory Affairs Analyst

Questar Exploration & Production Co.

Office: 435-781-4301

Cell: 435-790-3666

Fax: 435-781-4395

laura.bills@questar.com

RECEIVED

OCT 16 2008

DIV. OF OIL, GAS & MINING

Additional Operator Remarks

Questar Exploration & Production Co. proposes to drill a re-entry well to 10,226' to test the Green River. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirement.

See Onshore Order No. 1 attached

Please be advised that Questar Exploration & Production Co. agrees to be responsible under the terms and conditions of the lease for the operations conducted upon the lease lands.

Bond coverage for this well is provided by Bond No. ESB000024. The principal is Questar Exploration & Production Co. via surety as consent as provided for the 43 CFR 3104.2.

PLEASE FIND ATTACHED:

1. Re-Entry Procedure
2. Pathfinder Drilling Proposal
3. 8-point Program
4. Proposed Well Bore Diagram
5. Legal Plats / Map Prepared by UELS
6. Location Layout Referring to Reserve Pit

If additional Technical Information is required, Please contact Steve Hall, Questar Petroleum Engineer at 303-672-6919.

QUESTAR EXPLORATION AND PRODUCTION

Brennan 6

API: 43-047-30109

Summarized Re-Entry Procedure

1. Rig down pumping unit, clear location of all unnecessary equipment.
2. MIRU pulling unit.
3. ND tubing head, NU BOP's (3M).
4. Kill well if necessary.
5. Pull out of hole with 271 rods (1 - 1" x 2' plain, 1 - 1" x 4' plain, 2 - 1" x 6' plain, 79 - 1" w/ metal guides, 18 - 7/8" w/ metal guides, 105 - 3/4" plain and 69 - 7/8" plain) and 2 1/2" x 1 1/2" x 12 x 15 x 16 RHAC pump.
6. Unseat tubing anchor and POOH with 216 jts 2 7/8" 6.5# J-55 tubing, TAC, PSN, and MA.
7. PU bit and 5 1/2" casing scraper, RIH to 6,400'.
8. Roll hole with KCl or NaCl water, TOO H with bit and scraper.
9. RU wireline truck and RIH with CIBP.
10. Set top of CIBP @ +/- 6,366', 5' above nearest collar @ 6,371', POH.
11. ND BOP's
12. RD pulling unit, move off location.
13. MIRU drilling rig.
14. NU rig's 3,000 WP rated BOP.
15. RIH with whipstock, orient and set whipstock on top of CIBP set at 6,366' oriented at $115.4^{\circ} \pm$ azimuth. If it is off a little, it is better to be less ($< 115.4^{\circ}$) rather than greater ($> 115.4^{\circ}$) due to the tendency for the bit to turn right as it comes out of the window. Plus or minus $2-3^{\circ}$ is acceptable.
16. Shear setting pins and start milling operations, mill window in 5 1/2" casing @ 6,354' top, 6,360' bottom and pilot hole. Work mills in and out of window several times.
17. TOO H, PU directional BHA and gyro tool, TIH.
18. Gyro steer the well at a 115.4° azimuth with $13.77^{\circ}/100'$ build rates to 50 to 100 feet or until the MWD tools have cleared the casing and are providing accurate readings.
19. Pull gyro tool and continue to drill with directional equipment to land in the H4a Lime formation at a TVD of +/- 6,770' TVD, +/- 7,016' MD.

20. Drill +/- 3,197' of lateral in the H4a Lime with a 1.15° apparent up dip angle.
 - a. Mud system to be a KCl or NaCl weighted water based mud, weights are expected to be in the 8.8 – 9.8 ppg range.
21. Circulate and condition hole, TOOH, LD 3,800' of drill pipe.
 - a. PU 3,197' of 3 1/2" flush slotted liner, 655' of blank liner and liner dropping tool.
 - b. RIH w/ liner and dropping tool, drop liner at 6,361', just outside window.
 - c. TOOH.
22. RIH and set top of RBP @ +/- 6,334', 8' above nearest collar @ 6,342', POH.
23. RIH with whipstock, orient and set whipstock on top of RBP set at 6,334' oriented at $248.03^{\circ} \pm$ azimuth. If it is off a little, it is better to be less ($< 248.03^{\circ}$) rather than greater ($> 248.03^{\circ}$) due to the tendency for the bit to turn right as it comes out of the window. Plus or minus $2-3^{\circ}$ is acceptable.
24. Shear setting pins and start milling operations, mill window in 5 1/2" casing @ 6,322' top, 6,328' bottom and pilot hole. Work mills in and out of window several times.
25. TOOH, PU directional BHA and gyro tool, TIH.
26. Gyro steer the well at a 248.03° azimuth with 12.56°/100' build rates to 50 to 100 feet or until the MWD tools have cleared the casing and are providing accurate readings.
27. Pull gyro tool and continue to drill with directional equipment to land in the H4a Lime formation at a TVD of +/- 6,778' TVD, +/- 7,039' MD.
28. Drill +/- 3,187' of lateral in the H4a Lime with a 0.1° apparent up dip angle.
 - a. Mud system to be a KCl or NaCl weighted water based mud, weights are expected to be in the 8.8 – 9.8 ppg range.
29. Circulate and condition hole, TOOH, LD 3,800' of drill pipe.
 - a. PU 3,187' of 3 1/2" flush slotted liner, 710' of blank liner and liner dropping tool.
 - b. RIH w/ liner and dropping tool, drop liner at 6,329', just outside window.
 - c. TOOH.
30. RIH and set top of RBP @ +/- 6,122', 5' above nearest collar @ 6,127', POH.
31. RIH with whipstock, orient and set whipstock on top of RBP set at 6,122' oriented at $216.53^{\circ} \pm$ azimuth. If it is off a little, it is better to be less ($< 216.53^{\circ}$) rather than greater ($> 216.53^{\circ}$) due to the tendency for the bit to turn right as it comes out of the window. Plus or minus $2-3^{\circ}$ is acceptable.

32. Shear setting pins and start milling operations, mill window in 5 1/2" casing @ 6,110' top, 6,116' bottom and pilot hole. Work mills in and out of window several times.
33. TOOH, PU directional BHA and gyro tool, TIH.
34. Gyro steer the well at a 216.53° azimuth with 13.35°/100' build rates to 50 to 100 feet or until the MWD tools have cleared the casing and are providing accurate readings.
35. Pull gyro tool and continue to drill with directional equipment to land in the G1 Lime formation at a TVD of +/- 6,539' TVD, +/- 6,790' MD.
36. Drill +/- 3,420' of lateral in the G1 Lime with a 0.75° apparent up dip angle.
 - a. Mud system to be a KCl or NaCl weighted water based mud, weights are expected to be in the 8.8 – 9.8 ppg range.
37. Circulate and condition hole, TOOH, LD 4,000' of drill pipe.
 - a. PU 3,420' of 3 1/2" flush slotted liner, 673' of blank liner and liner dropping tool.
 - b. RIH w/ liner and dropping tool, drop liner at 6,117', just outside window.
 - c. TOOH.
38. Run in hole with CBP and set @ +/- 4,500' to isolate the laterals.
39. ND BOP's.
40. RDMOL.

Proposed
Brennan 6
AP# 43-047-30109
 NWNW Sec 19 T7S R21E
 Uintah County, Utah
 KB 4,693'
 GL 4,679'
 Spud Date: 1971

8-5/8", 24#, K-55, set @ 333'
 13-3/4" hole, cmt 350 sks

TOC @ 2,998'

Whipstock set @ 6,122'. Window
 top 6,110', bottom 6,116'.
 Whipstock pulled after drilling
 & completions are done.

Horizontal Lateral #3

3-1/2", 9.2#, P-110 blank & perforated liner

3,420' of G1 lime along 216.53° azimuth, SW

RBP set @ 6,122'

Whipstock set @ 6,334'. Window
 top 6,322', bottom 6,328'.
 Whipstock pulled after drilling
 & completions are done.

Horizontal Lateral #2

3-1/2", 9.2#, P-110 blank & perforated liner

3,187' of H4a lime along 248.03° azimuth, WSW

RBP set @ 6,334'

Whipstock set at 6,366'
 Window top 6,354' bottom 6,360'

Horizontal Lateral #1

3-1/2" P-110 blank & perforated liner

3,197' of H4a lime along 115.4° azimuth, ESE

CIBP set @ 6,366'

4-3/4" hole

Perfs:

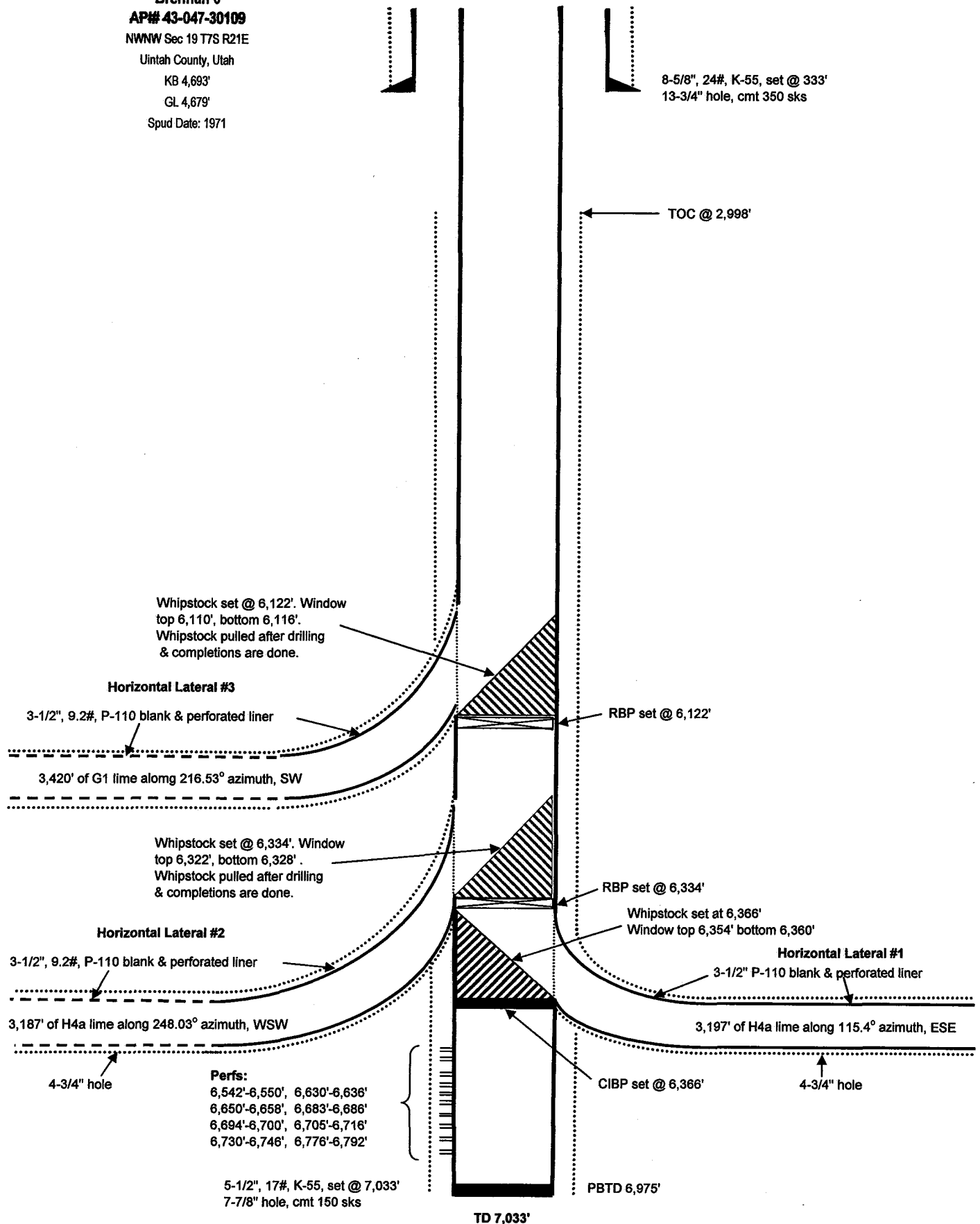
6,542'-6,550', 6,630'-6,636'
 6,650'-6,658', 6,683'-6,686'
 6,694'-6,700', 6,705'-6,716'
 6,730'-6,746', 6,776'-6,792'

4-3/4" hole

5-1/2", 17#, K-55, set @ 7,033'
 7-7/8" hole, cmt 150 sks

PBTD 6,975'

TD 7,033'



ONSHORE OIL & GAS ORDER NO. 1
QUESTAR EXPLORATION AND PRODUCTION, CO.
Brennan 6 (Re-Entry Horizontal)
DRILLING PROGRAM

ONSHORE OIL & GAS ORDER NO. 1
Approval of Operations on Onshore
Federal Oil and Gas Leases

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil & Gas No. 1, and the approved plan of operations. The operator is fully responsible for the actions of its subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

1. **Formation Tops**

The estimated top of important geologic markers are as follows:

Lateral #1 (ESE):

<u>Formation</u>	<u>Depth, TVD</u>	<u>Depth, MD</u>
Green River	3,300'	2,750'
Kick Off Point	6,354'	6,354'
Green River (H4a Lime)	6,770'	7,016'
TD	6,706'	10,213'

Lateral #2 (WSW):

<u>Formation</u>	<u>Depth, TVD</u>	<u>Depth, MD</u>
Green River	3,300'	2,750'
Kick Off Point	6,322'	6,322'
Green River (H4a Lime)	6,778'	7,039'
TD	6,722'	10,226'

Lateral #3 (SW):

<u>Formation</u>	<u>Depth, TVD</u>	<u>Depth, MD</u>
Green River	3,300'	2,750'
Kick Off Point	6,110'	6,110'
Green River (G1 Lime)	6,539'	6,790'
TD	6,494'	10,210'

2. **Anticipated Depths of Oil, Gas, Water, and Other Mineral Bearing Zones**

The estimated depths at which the top and bottom of the anticipated water, oil, gas, or other mineral bearing formations are expected to be encountered as follows:

Lateral #1 (ESE):

<u>Substance</u>	<u>Formation</u>	<u>Depth, TVD</u>	<u>Depth, MD</u>
Oil/Gas	Green River (H4a Lime)	6,770'	7,016' – 10,213'

ONSHORE OIL & GAS ORDER NO. 1
QUESTAR EXPLORATION AND PRODUCTION, CO.
Brennan 6 (Re-Entry Horizontal)

Lateral #2 (WSW):

<u>Substance</u>	<u>Formation</u>	<u>Depth, TVD</u>	<u>Depth, MD</u>
Oil/Gas	Green River (H4a Lime)	6,778'	7,039' – 10,226'

Lateral #3 (SW):

<u>Substance</u>	<u>Formation</u>	<u>Depth, TVD</u>	<u>Depth, MD</u>
Oil/Gas	Green River (G1 Lime)	6,539'	6,790' – 10,210'

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

All water shows and water-bearing sands will be reported to the BLM in Vernal, Utah. Copies of State of Utah form OGC-8-X are acceptable. If flows are detected, samples will be submitted to the BLM along with any water analyses conducted. Fresh water will be obtained from Wonsits Valley water right A36125 (which was filed on May 7, 1964) or Red Wash water right # 49-2153 (which was filed on March 25, 1960). It was determined by the Fish and Wildlife Service that any water right number filed before 1989 is not depleting to the Upper Colorado River System, to supply fresh water for drilling purposes. All water resulting from drilling operations will be disposed of at Red Wash Central Battery Disposal site; SWSE, Section 27, T7S, R23E or Wonsits Valley Disposal Site; SWNW, Section 12, T8S, R21E.

3. Operator's Specification for Pressure Control Equipment

- A. 3,000 psi double gate, 3,000 psi annular (schematic attached)
- B. Function test daily.
- C. All casing strings shall be pressure tested (0.22 psi/ft or 1,500 psi, whichever is greater) prior to drilling the plug after cementing; test pressure shall not exceed the internal yield of the casing.
- D. Ram type preventers and associated equipment shall be tested to rated working pressure if isolated by a test plug or to 50% of the internal yield pressure of casing, whichever is less. BOP and related equipment shall meet the minimum requirements of Onshore Oil & Gas Order No. 2 for equipment and testing requirements, procedures, etc..., for a 3M system and individual components shall be operable as designed.

4. Casing Vertical Wellbore (Existing)

Hole Size	Casing Size	Top, MD	Bottom, MD	Weight, lb/ft	Grade	Thread	Condition
17 1/2"	14"	sfc	40'	Steel	Cond.	None	Used
13 3/4"	8 5/8"	sfc	333'	24.0	K-55	STC	New
7 7/8"	5 1/2"	sfc	7,033'	17.0	K-55	LTC	New

ONSHORE OIL & GAS ORDER NO. 1
 QUESTAR EXPLORATION AND PRODUCTION, CO.
 Brennan 6 (Re-Entry Horizontal)

Casing Strengths:				Collapse	Burst	Tensile (minimum)
8 5/8"	24.0 lb.	K-55	STC	1,370 psi	2,950 psi	263,000 lb.
5 1/2"	17.0 lb.	K-55	LTC	4,910 psi	5,320 psi	272,000 lb.

The lateral portion of these wellbores will be cased with blank and slotted liners.

Lateral #1 (ESE):

Hole Size	Casing Size	Top,MD	Bottom, MD	Weight	Grade	Mud Weight
4 3/4"	3 1/2"	6,361'	10,213'	9.2	P-110	8.8-9.8

Lateral #2 (WSW):

Hole Size	Casing Size	Top,MD	Bottom, MD	Weight	Grade	Mud Weight
4 3/4"	3 1/2"	6,329'	10,226'	9.2	P-110	8.8-9.8

Lateral #3 (SW):

Hole Size	Casing Size	Top,MD	Bottom, MD	Weight	Grade	Mud Weight
4 3/4"	3 1/2"	6,117'	10,210'	9.2	P-110	8.8-9.8

Please refer to the wellbore diagram and re-entry procedure for further details.

MINIMUM DESIGN FACTORS:

COLLAPSE: 1.125

BURST: 1.10

TENSION: 1.80

Area Fracture Gradient: 0.6 psi/foot

Maximum anticipated mud weight: 9.8 ppg

Maximum surface treating pressure: 4,000 psi

5. Cementing Program

Casing in the vertical wellbore already exists and is cemented in place requiring no cement.

Lateral #1 (ESE): 3 1/2" Slotted & Blank Liner: 6,361' – 10,213' (MD)

No cement, dropped in open hole.

Lateral #2 (WSW): 3 1/2" Slotted & Blank Liner: 6,329' – 10,226' (MD)

No cement, dropped in open hole.

ONSHORE OIL & GAS ORDER NO. 1
QUESTAR EXPLORATION AND PRODUCTION, CO.
Brennan 6 (Re-Entry Horizontal)

Lateral #3 (SW): 3 ½" Slotted & Blank Liner: 6,117' – 10,210' (MD)
No cement, dropped in open hole.

6. **Auxilliary Equipment**

- A. Kelly Cock – Yes
- B. Float at the bit – No
- C. Monitoring equipment on the mud system – visually and/or PVT or Flow Show
- D. Fully opening safety valve on the rig floor – Yes
- E. Rotating Head – Yes
- F. All operations and equipment for air/gas drilling shall meet specifications in Onshore Order #2, Section III Requirements, subsection E. Special Drilling Operations and Onshore Order #1. No air drilling is planned.

Drilling of the laterals will be done with fresh water KCl or NaCl based mud systems consisting primarily of fresh water, bentonite, lignite, caustic, lime, soda ash, polymers, and KCl or NaCl. No chromates will be used. Maximum anticipated mud weight is 9.8 ppg.

No minimum quantity of weight material will be required to be kept on location.

PVT/Flow show will be used upon each exit of existing casing to TD.

Gas detector will be used upon each exit of existing casing to TD.

7. **Testing, Logging, and Coring Program**

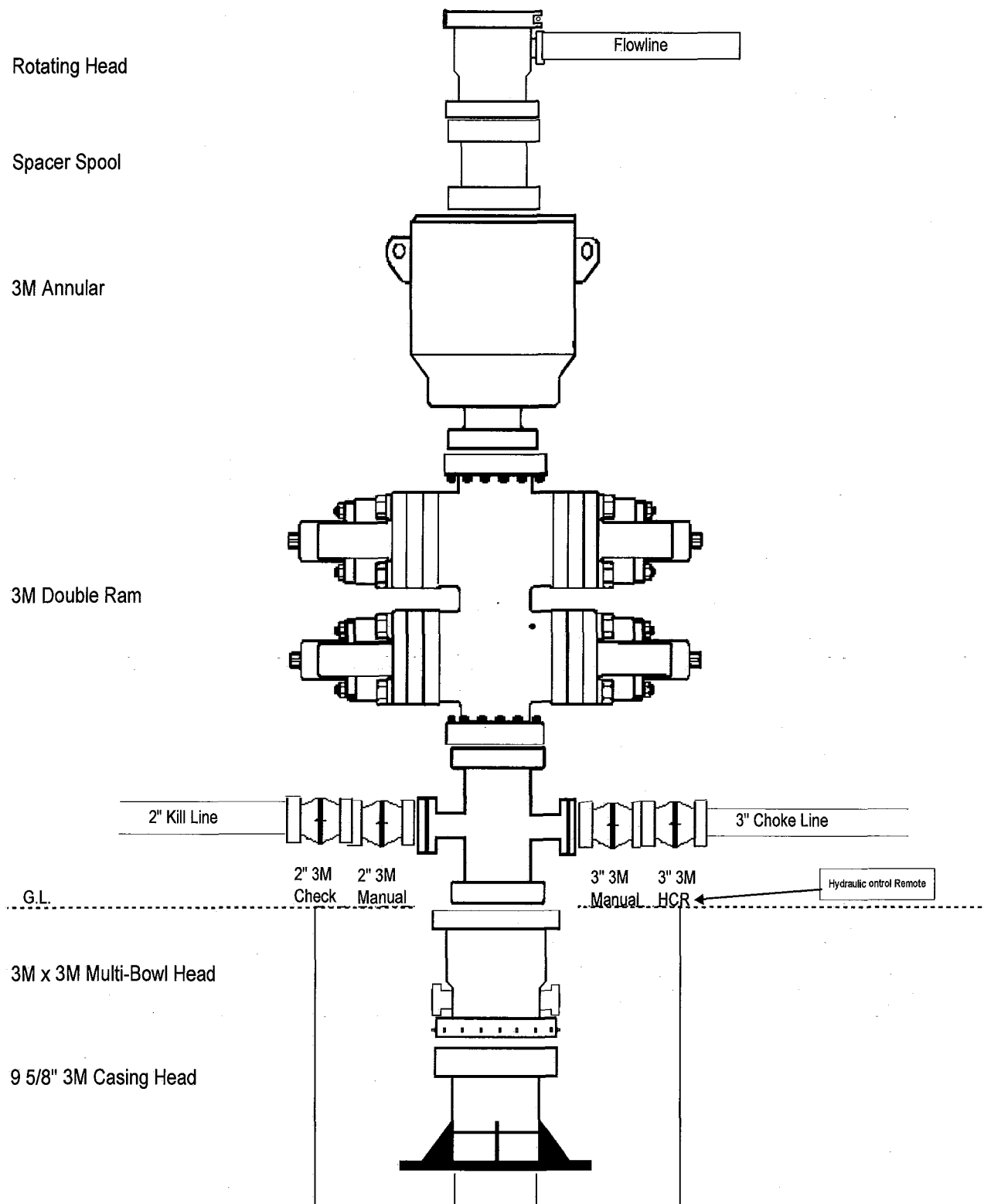
- A. Cores – None Anticipated
- B. DST – None Anticipated
- C. Logging:
 - i. Mud logging from 5,000' to TD
 - ii. MWD-GR will be utilized during drilling operations to aid in landing the curve and maintaining the laterals within the desired zone.
- D. Formation and completion interval: H4a and G1 Lime intervals, final determination of completion will be made by analysis of mud logging data. Stimulation: stimulation will be designed for the particular area of interest encountered.

ONSHORE OIL & GAS ORDER NO. 1
QUESTAR EXPLORATION AND PRODUCTION, CO.
Brennan 6 (Re-Entry Horizontal)

8. Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards

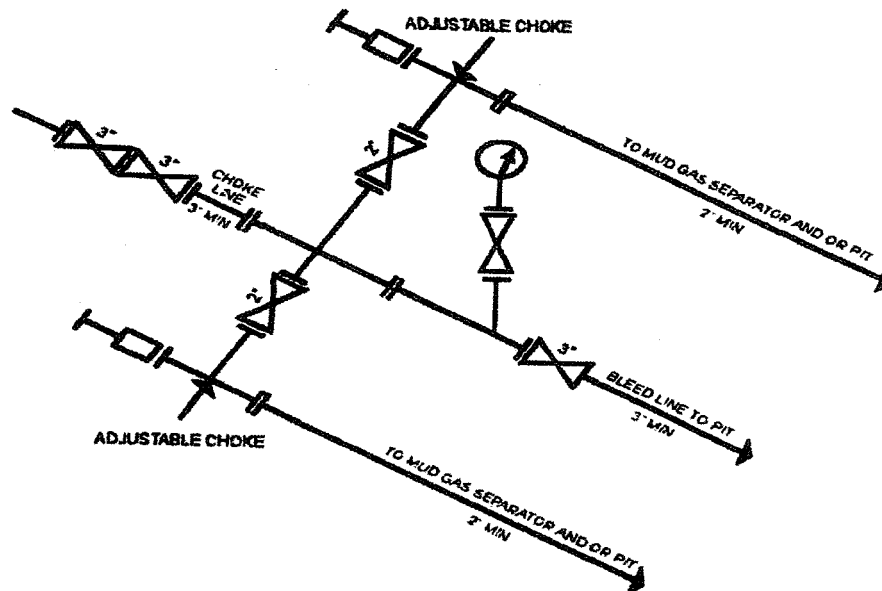
No abnormal temperatures or pressures are anticipated. No H₂S has been encountered or is known to exist from previous wells drilled to similar depths in the general area. Maximum anticipated bottom-hole pressure equals approximately 3,455 psi. Maximum anticipated bottom hole temperature is approximately 150°F.

ONSHORE OIL & GAS ORDER NO. 1
 QUESTAR EXPLORATION AND PRODUCTION, CO.
 Brennan 6 (Re-Entry Horizontal)
 3M BOP STACK



3M CHOKE MANIFOLD

ONSHORE OIL & GAS ORDER NO. 1
QUESTAR EXPLORATION AND PRODUCTION, CO.
Brennan 6 (Re-Entry Horizontal)



3M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY
[54 FR 39528, Sept. 27, 1989]



Questar Exploration & Production

Uintah Co., UT

Sec.19-T7S-R21E

Brennan Federal #6

Wellbore Lat#1

Plan: Plan #1

Pathfinder Planning Report

18 March, 2008





Pathfinder Energy Services
Planning Report



Database: EDM 2003.16 Single User Db
Company: Questar Exploration & Production
Project: Uintah Co., UT
Site: Sec.19-T7S-R21E
Well: Brennan Federal #6
Wellbore: Wellbore Lat#1
Design: Plan #1

Local Co-ordinate Reference: Well Brennan Federal #6
TVD Reference: WELL @ 4691.0ft (Original Well Elev)
MD Reference: WELL @ 4691.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Project	Uintah Co., UT		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site	Sec.19-T7S-R21E		
Site Position:		Northing:	7,247,798.66 ft
From:	Lat/Long	Easting:	2,169,536.68 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	40° 12' 6.120 N
		Longitude:	109° 36' 19.820 W
		Grid Convergence:	1.21 °

Well	Brennan Federal #6		
Well Position	+N/-S	0.0 ft	Northing:
	+E/-W	0.0 ft	Easting:
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	40° 12' 6.120 N
		Longitude:	109° 36' 19.820 W
		Ground Level:	4,679.0 ft

Wellbore	Wellbore Lat#1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	2/13/2008	11.57	66.11	52,819

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE		Tie On Depth:
				0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	115.40

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,354.0	0.00	0.00	6,354.0	0.0	0.0	0.00	0.00	0.00	0.00	
7,015.9	91.15	115.40	6,770.0	-182.1	383.4	13.77	13.77	0.00	115.40	PBHL Brennan #6 Lal
10,212.9	91.15	115.40	6,705.8	-1,553.0	3,270.7	0.00	0.00	0.00	0.00	PBHL Brennan #6 Lal

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Local Co-ordinate Reference: Well Brennan Federal #6
TVD Reference: WELL @ 4691.0ft (Original Well Elev)
MD Reference: WELL @ 4691.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
KOP / Start Build 13.77°.									
6,354.0	0.00	0.00	6,354.0	0.0	0.0	0.0	0.00	0.00	0.00
Casing Collar 6371' MD									
6,371.0	2.34	115.40	6,371.0	-0.1	0.3	0.3	13.77	13.77	0.00
6,375.0	2.89	115.40	6,375.0	-0.2	0.5	0.5	13.77	13.77	0.00
6,400.0	6.33	115.40	6,399.9	-1.1	2.3	2.5	13.77	13.77	0.00
6,425.0	9.78	115.40	6,424.7	-2.6	5.5	6.0	13.77	13.77	0.00
6,450.0	13.22	115.40	6,449.2	-4.7	10.0	11.0	13.77	13.77	0.00
6,475.0	16.66	115.40	6,473.3	-7.5	15.8	17.5	13.77	13.77	0.00
6,500.0	20.10	115.40	6,497.0	-10.9	22.9	25.4	13.77	13.77	0.00
6,525.0	23.55	115.40	6,520.2	-14.9	31.3	34.6	13.77	13.77	0.00
G1 Lime Top Porosity									
6,549.2	26.88	115.40	6,542.1	-19.3	40.6	44.9	13.77	13.77	0.00
6,550.0	26.99	115.40	6,542.8	-19.4	40.9	45.3	13.77	13.77	0.00
G1 Lime Bottom of Porosity									
6,553.6	27.49	115.40	6,546.1	-20.1	42.4	47.0	13.77	13.77	0.00
6,575.0	30.43	115.40	6,564.8	-24.6	51.8	57.3	13.77	13.77	0.00
6,600.0	33.87	115.40	6,585.9	-30.3	63.8	70.6	13.77	13.77	0.00
6,625.0	37.32	115.40	6,606.2	-36.5	76.9	85.2	13.77	13.77	0.00
6,650.0	40.76	115.40	6,625.7	-43.3	91.2	100.9	13.77	13.77	0.00
6,675.0	44.20	115.40	6,644.1	-50.5	106.4	117.8	13.77	13.77	0.00
6,700.0	47.64	115.40	6,661.5	-58.2	122.6	135.8	13.77	13.77	0.00
6,725.0	51.09	115.40	6,677.8	-66.4	139.8	154.7	13.77	13.77	0.00
6,750.0	54.53	115.40	6,692.9	-74.9	157.8	174.6	13.77	13.77	0.00
6,775.0	57.97	115.40	6,706.8	-83.8	176.5	195.4	13.77	13.77	0.00
6,800.0	61.41	115.40	6,719.4	-93.1	196.0	217.0	13.77	13.77	0.00
6,825.0	64.86	115.40	6,730.7	-102.6	216.2	239.3	13.77	13.77	0.00
6,850.0	68.30	115.40	6,740.6	-112.5	236.9	262.2	13.77	13.77	0.00
6,875.0	71.74	115.40	6,749.1	-122.6	258.1	285.7	13.77	13.77	0.00
6,900.0	75.18	115.40	6,756.3	-132.8	279.8	309.7	13.77	13.77	0.00
6,925.0	78.63	115.40	6,761.9	-143.3	301.7	334.0	13.77	13.77	0.00
6,950.0	82.07	115.40	6,766.1	-153.9	324.0	358.7	13.77	13.77	0.00
H4a Lime Top Porosity									
6,970.1	84.83	115.40	6,768.4	-162.4	342.0	378.6	13.77	13.77	0.00
6,975.0	85.51	115.40	6,768.8	-164.5	346.5	383.5	13.77	13.77	0.00
7,000.0	88.95	115.40	6,770.0	-175.2	369.0	408.5	13.77	13.77	0.00
Start 3196.9 hold at 7015.9 MD									
7,015.9	91.15	115.40	6,770.0	-182.1	383.4	424.4	13.77	13.77	0.00
7,100.0	91.15	115.40	6,768.3	-218.1	459.3	508.5	0.00	0.00	0.00
7,200.0	91.15	115.40	6,766.3	-261.0	549.6	608.5	0.00	0.00	0.00
7,300.0	91.15	115.40	6,764.3	-303.9	640.0	708.4	0.00	0.00	0.00
7,400.0	91.15	115.40	6,762.3	-346.8	730.3	808.4	0.00	0.00	0.00
7,500.0	91.15	115.40	6,760.3	-389.6	820.6	908.4	0.00	0.00	0.00
7,600.0	91.15	115.40	6,758.3	-432.5	910.9	1,008.4	0.00	0.00	0.00
7,700.0	91.15	115.40	6,756.3	-475.4	1,001.2	1,108.4	0.00	0.00	0.00
7,800.0	91.15	115.40	6,754.3	-518.3	1,091.5	1,208.3	0.00	0.00	0.00
7,900.0	91.15	115.40	6,752.3	-561.2	1,181.8	1,308.3	0.00	0.00	0.00
8,000.0	91.15	115.40	6,750.3	-604.1	1,272.2	1,408.3	0.00	0.00	0.00
8,100.0	91.15	115.40	6,748.3	-647.0	1,362.5	1,508.3	0.00	0.00	0.00
8,200.0	91.15	115.40	6,746.2	-689.8	1,452.8	1,608.3	0.00	0.00	0.00
8,300.0	91.15	115.40	6,744.2	-732.7	1,543.1	1,708.2	0.00	0.00	0.00
8,400.0	91.15	115.40	6,742.2	-775.6	1,633.4	1,808.2	0.00	0.00	0.00
8,500.0	91.15	115.40	6,740.2	-818.5	1,723.7	1,908.2	0.00	0.00	0.00

Database: EDM 2003.16 Single User Db
Company: Questar Exploration & Production
Project: Uintah Co., UT
Site: Sec.19-T7S-R21E
Well: Brennan Federal #6
Wellbore: Wellbore Lat#1
Design: Plan #1

Local Co-ordinate Reference: Well Brennan Federal #6
TVD Reference: WELL @ 4891.0ft (Original Well Elev)
MD Reference: WELL @ 4891.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,600.0	91.15	115.40	6,738.2	-861.4	1,814.1	2,008.2	0.00	0.00	0.00
8,700.0	91.15	115.40	6,736.2	-904.3	1,904.4	2,108.2	0.00	0.00	0.00
8,800.0	91.15	115.40	6,734.2	-947.1	1,994.7	2,208.1	0.00	0.00	0.00
8,900.0	91.15	115.40	6,732.2	-990.0	2,085.0	2,308.1	0.00	0.00	0.00
9,000.0	91.15	115.40	6,730.2	-1,032.9	2,175.3	2,408.1	0.00	0.00	0.00
9,100.0	91.15	115.40	6,728.2	-1,075.8	2,265.6	2,508.1	0.00	0.00	0.00
9,200.0	91.15	115.40	6,726.2	-1,118.7	2,355.9	2,608.1	0.00	0.00	0.00
9,300.0	91.15	115.40	6,724.2	-1,161.6	2,446.3	2,708.0	0.00	0.00	0.00
9,400.0	91.15	115.40	6,722.2	-1,204.5	2,536.6	2,808.0	0.00	0.00	0.00
9,500.0	91.15	115.40	6,720.2	-1,247.3	2,626.9	2,908.0	0.00	0.00	0.00
9,600.0	91.15	115.40	6,718.1	-1,290.2	2,717.2	3,008.0	0.00	0.00	0.00
9,700.0	91.15	115.40	6,716.1	-1,333.1	2,807.5	3,108.0	0.00	0.00	0.00
9,800.0	91.15	115.40	6,714.1	-1,376.0	2,897.8	3,207.9	0.00	0.00	0.00
9,900.0	91.15	115.40	6,712.1	-1,418.9	2,988.2	3,307.9	0.00	0.00	0.00
10,000.0	91.15	115.40	6,710.1	-1,461.8	3,078.5	3,407.9	0.00	0.00	0.00
10,100.0	91.15	115.40	6,708.1	-1,504.7	3,168.8	3,507.9	0.00	0.00	0.00
10,200.0	91.15	115.40	6,706.1	-1,547.5	3,259.1	3,607.9	0.00	0.00	0.00
TD at 10212.9 - PBHL Brennan #6 Lat #1 - PBHL Brennan #6 Lat #1									
10,212.9	91.15	115.40	6,705.8	-1,553.0	3,270.7	3,620.7	0.00	0.00	0.00

Targets

Target Name	- hit/miss target	- Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL Brennan #6 Lat #	- plan hits target	- Point	0.00	0.00	6,705.8	-1,553.0	3,270.7	7,246,315.23	2,172,839.56	40° 11' 50.769 N	109° 35' 37.667 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
6,342.0	6,342.0	Casing Collar 6342' MD	5-1/2	6
6,371.0	6,371.0	Casing Collar 6371' MD	5-1/2	6

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,300.0	3,300.0	Green River		-1.15	114.79
6,549.2	6,543.0	G1 Lime Top Porosity		-1.15	114.79
6,553.6	6,547.0	G1 Lime Bottom of Porosity		-1.15	114.79
6,970.1	6,776.0	H4a Lime Top Porosity		-1.15	114.79
	6,782.0	H4a Lime Bottom Porosity		-1.15	114.79



Pathfinder Energy Services
Planning Report



Database: EDM 2003.16 Single User Db
Company: Questar Exploration & Production
Project: Uintah Co., UT
Site: Sec.19-T7S-R21E
Well: Brennan Federal #6
Wellbore: Wellbore Lat#1
Design: Plan #1

Local Co-ordinate Reference: Well Brennan Federal #6
TVD Reference: WELL @ 4691.0ft (Original Well Elev)
MD Reference: WELL @ 4691.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
6,354.0	6,354.0	0.0	0.0	KOP / Start Build 13.77°.
7,015.9	6,770.0	-182.1	383.4	Start 3196.9 hold at 7015.9 MD
10,212.9	6,705.8	-1,553.0	3,270.7	TD at 10212.9



Company: Questar Exploration & Production
Field: Uintah Co., UT
Location: Sec.19-T7S-R21E
Well: Brennan Federal #6
Wellbore Lat#1
Plan: Plan #1 (Brennan Federal #6/Wellbore Lat#1)



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	6354.0	0.00	0.00	6354.0	0.0	0.0	0.00	0.00	0.0	
3	7015.9	91.15	115.40	6770.0	-182.1	383.4	13.77	115.40	424.4	PBHL Brennan #6 Lat #1
4	10212.9	91.15	115.40	6705.8	-1553.0	3270.7	0.00	0.00	3620.7	PBHL Brennan #6 Lat #1

WELL DETAILS: Brennan Federal #6

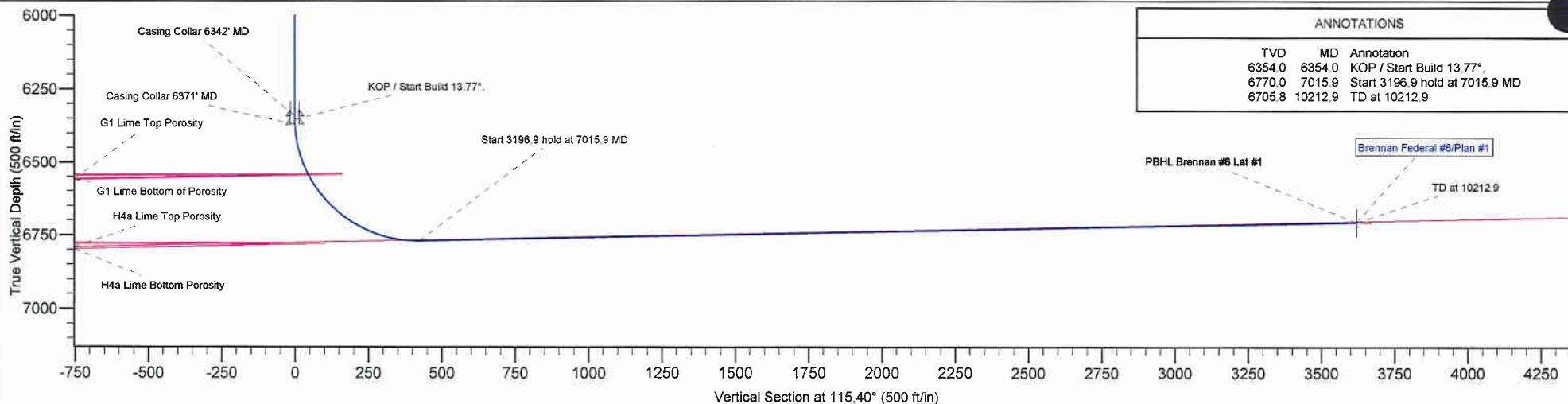
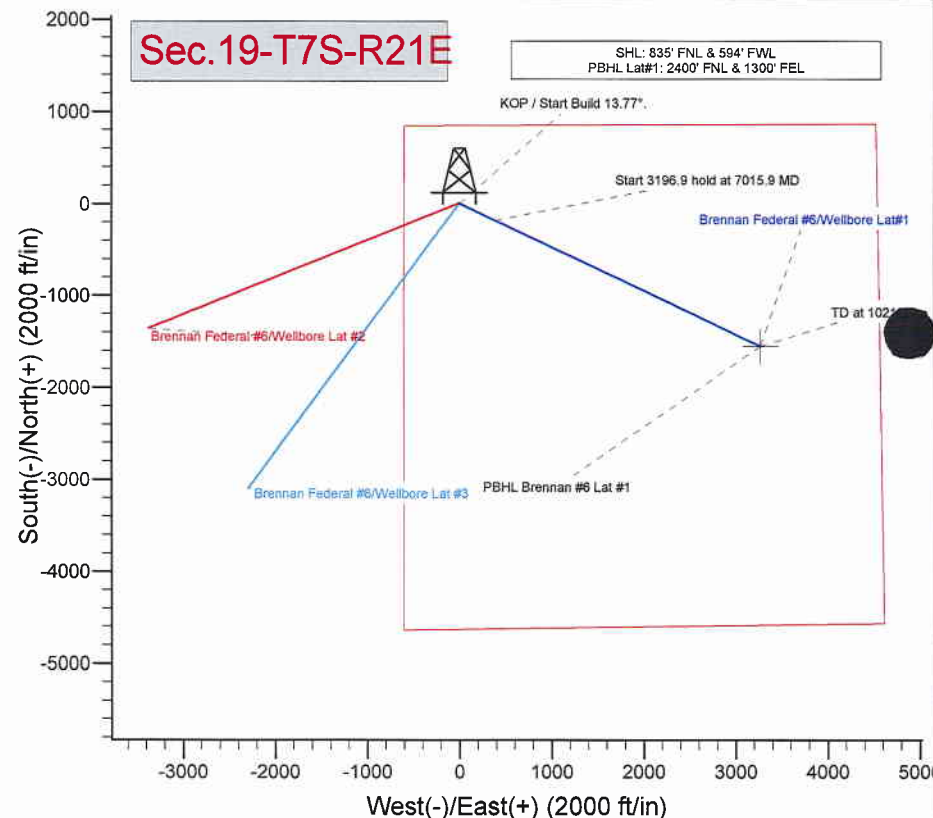
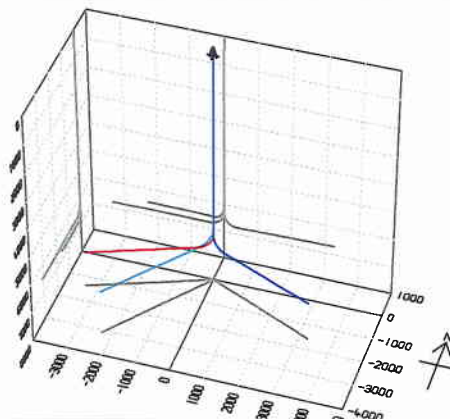
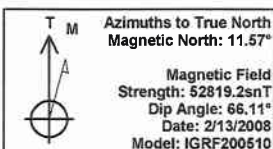
		Ground Level: 4679.0			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	7247798.66	2169536.68	40° 12' 6.120 N	109° 36' 19.820 W

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
PBHL Brennan #6 Lat #1	6705.8	-1553.0	3270.7	Point

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3300.0	3300.0	H4a Lime Bottom Porosity
6542.1	6549.2	Green River
6542.1	6549.2	G1 Lime Top Porosity
6546.1	6553.6	G1 Lime Bottom of Porosity
6758.4	6970.1	H4a Lime Top Porosity



ANNOTATIONS

TVD	MD	Annotation
6354.0	6354.0	KOP / Start Build 13.77°
6770.0	7015.9	Start 3196.9 hold at 7015.9 MD
6705.8	10212.9	TD at 10212.9



Questar Exploration & Production

Uintah Co., UT

Sec.19-T7S-R21E

Brennan Federal #6

Wellbore Lat #2

Plan: Plan #1

Pathfinder Planning Report

18 March, 2008





Pathfinder Energy Services
Planning Report



Database: EDM 2003.16 Single User Db
Company: Questar Exploration & Production
Project: Uintah Co., UT
Site: Sec.19-T7S-R21E
Well: Brennan Federal #6
Wellbore: Wellbore Lat #2
Design: Plan #1

Local Co-ordinate Reference: Well Brennan Federal #6
TVD Reference: WELL @ 4691.0ft (Original Well Elev)
MD Reference: WELL @ 4691.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Project	Uintah Co., UT		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site	Sec.19-T7S-R21E		
Site Position:		Northing:	7,247,798.66 ft
From:	Lat/Long	Easting:	2,169,536.68 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	40° 12' 6.120 N
		Longitude:	109° 36' 19.820 W
		Grid Convergence:	1.21 °

Well	Brennan Federal #6		
Well Position	+N/-S	0.0 ft	Northing: 7,247,798.66 ft
	+E/-W	0.0 ft	Easting: 2,169,536.68 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	40° 12' 6.120 N
		Longitude:	109° 36' 19.820 W
		Ground Level:	4,679.0 ft

Wellbore	Wellbore Lat #2				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	2/13/2008	11.57	66.11	52,819

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	6,321.8
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	248.03

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
6,321.8	0.00	0.00	6,321.8	0.0	0.0	0.00	0.00	0.00	0.00	
7,039.2	90.10	248.03	6,778.0	-171.0	-423.8	12.56	12.56	0.00	248.03	PBHL Brennan #6 Lat
10,225.6	90.10	248.03	6,772.4	-1,363.1	-3,378.8	0.00	0.00	0.00	0.00	PBHL Brennan #6 Lat

Database: EDM 2003.16 Single User Db
Company: Questar Exploration & Production
Project: Uintah Co., UT
Site: Sec.19-T7S-R21E
Well: Brennan Federal #6
Wellbore: Wellbore Lat #2
Design: Plan #1

Local Co-ordinate Reference: Well Brennan Federal #6
TVD Reference: WELL @ 4691.0ft (Original Well Elev)
MD Reference: WELL @ 4691.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
KOP / Start Build 12.56°.									
6,321.8	0.00	0.00	6,321.8	0.0	0.0	0.0	0.00	0.00	0.00
6,325.0	0.40	248.03	6,325.0	0.0	0.0	0.0	12.56	12.56	0.00
Casing Collar 6342' MD									
6,342.0	2.54	248.03	6,342.0	-0.2	-0.4	0.4	12.56	12.56	0.00
6,350.0	3.54	248.03	6,350.0	-0.3	-0.8	0.9	12.56	12.56	0.00
6,375.0	6.68	248.03	6,374.9	-1.2	-2.9	3.1	12.56	12.56	0.00
6,400.0	9.82	248.03	6,399.6	-2.5	-6.2	6.7	12.56	12.56	0.00
6,425.0	12.96	248.03	6,424.1	-4.3	-10.8	11.6	12.56	12.56	0.00
6,450.0	16.10	248.03	6,448.3	-6.7	-16.6	17.9	12.56	12.56	0.00
6,475.0	19.24	248.03	6,472.1	-9.5	-23.6	25.5	12.56	12.56	0.00
6,500.0	22.38	248.03	6,495.5	-12.9	-31.9	34.4	12.56	12.56	0.00
6,525.0	25.52	248.03	6,518.3	-16.7	-41.3	44.5	12.56	12.56	0.00
6,550.0	28.66	248.03	6,540.6	-20.9	-51.8	55.9	12.56	12.56	0.00
G1 Lime Top Porosity									
6,552.6	28.99	248.03	6,542.9	-21.4	-53.0	57.2	12.56	12.56	0.00
G1 Lime Bottom Porosity									
6,557.2	29.57	248.03	6,546.9	-22.2	-55.1	59.4	12.56	12.56	0.00
6,575.0	31.80	248.03	6,562.2	-25.6	-63.5	68.5	12.56	12.56	0.00
6,600.0	34.94	248.03	6,583.1	-30.8	-76.3	82.2	12.56	12.56	0.00
6,625.0	38.08	248.03	6,603.2	-36.3	-90.1	97.1	12.56	12.56	0.00
6,650.0	41.22	248.03	6,622.4	-42.3	-104.8	113.1	12.56	12.56	0.00
6,675.0	44.36	248.03	6,640.8	-48.7	-120.6	130.0	12.56	12.56	0.00
6,700.0	47.50	248.03	6,658.1	-55.4	-137.3	148.0	12.56	12.56	0.00
6,725.0	50.64	248.03	6,674.5	-62.4	-154.8	166.9	12.56	12.56	0.00
6,750.0	53.78	248.03	6,689.8	-69.8	-173.1	186.6	12.56	12.56	0.00
6,775.0	56.92	248.03	6,704.0	-77.5	-192.2	207.2	12.56	12.56	0.00
6,800.0	60.06	248.03	6,717.1	-85.5	-211.9	228.5	12.56	12.56	0.00
6,825.0	63.20	248.03	6,729.0	-93.7	-232.3	250.5	12.56	12.56	0.00
6,850.0	66.34	248.03	6,739.6	-102.2	-253.3	273.1	12.56	12.56	0.00
6,875.0	69.48	248.03	6,749.0	-110.8	-274.8	296.3	12.56	12.56	0.00
6,900.0	72.62	248.03	6,757.2	-119.7	-296.7	319.9	12.56	12.56	0.00
6,925.0	75.76	248.03	6,764.0	-128.7	-319.0	344.0	12.56	12.56	0.00
6,950.0	78.90	248.03	6,769.4	-137.8	-341.6	368.4	12.56	12.56	0.00
6,975.0	82.04	248.03	6,773.6	-147.0	-364.5	393.0	12.56	12.56	0.00
H4a Lime Top Porosity									
6,988.8	83.78	248.03	6,775.3	-152.2	-377.2	406.7	12.56	12.56	0.00
7,000.0	85.18	248.03	6,776.4	-156.3	-387.5	417.9	12.56	12.56	0.00
7,025.0	88.32	248.03	6,777.8	-165.7	-410.7	442.8	12.56	12.56	0.00
Start 3186.5 hold at 7039.2 MD									
7,039.2	90.10	248.03	6,778.0	-171.0	-423.8	457.0	12.56	12.56	0.00
7,100.0	90.10	248.03	6,777.9	-193.7	-480.2	517.8	0.00	0.00	0.00
7,200.0	90.10	248.03	6,777.7	-231.1	-572.9	617.8	0.00	0.00	0.00
7,300.0	90.10	248.03	6,777.5	-268.5	-665.7	717.8	0.00	0.00	0.00
7,400.0	90.10	248.03	6,777.3	-306.0	-758.4	817.8	0.00	0.00	0.00
7,500.0	90.10	248.03	6,777.2	-343.4	-851.2	917.8	0.00	0.00	0.00
7,600.0	90.10	248.03	6,777.0	-380.8	-943.9	1,017.8	0.00	0.00	0.00
7,700.0	90.10	248.03	6,776.8	-418.2	-1,036.6	1,117.8	0.00	0.00	0.00
7,800.0	90.10	248.03	6,776.6	-455.6	-1,129.4	1,217.8	0.00	0.00	0.00
7,900.0	90.10	248.03	6,776.5	-493.0	-1,222.1	1,317.8	0.00	0.00	0.00
8,000.0	90.10	248.03	6,776.3	-530.4	-1,314.9	1,417.8	0.00	0.00	0.00
8,100.0	90.10	248.03	6,776.1	-567.8	-1,407.6	1,517.8	0.00	0.00	0.00

Database: EDM 2003.16 Single User Db
Company: Questar Exploration & Production
Project: Uintah Co., UT
Site: Sec.19-T7S-R21E
Well: Brennan Federal #6
Wellbore: Wellbore Lat #2
Design: Plan #1

Local Co-ordinate Reference: Well Brennan Federal #6
TVD Reference: WELL @ 4691.0ft (Original Well Elev)
MD Reference: WELL @ 4691.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,200.0	90.10	248.03	6,775.9	-605.3	-1,500.3	1,617.8	0.00	0.00	0.00
8,300.0	90.10	248.03	6,775.8	-642.7	-1,593.1	1,717.8	0.00	0.00	0.00
8,400.0	90.10	248.03	6,775.6	-680.1	-1,685.8	1,817.8	0.00	0.00	0.00
8,500.0	90.10	248.03	6,775.4	-717.5	-1,778.5	1,917.8	0.00	0.00	0.00
8,600.0	90.10	248.03	6,775.3	-754.9	-1,871.3	2,017.8	0.00	0.00	0.00
8,700.0	90.10	248.03	6,775.1	-792.3	-1,964.0	2,117.8	0.00	0.00	0.00
8,800.0	90.10	248.03	6,774.9	-829.7	-2,056.8	2,217.8	0.00	0.00	0.00
8,900.0	90.10	248.03	6,774.7	-867.1	-2,149.5	2,317.8	0.00	0.00	0.00
9,000.0	90.10	248.03	6,774.6	-904.6	-2,242.2	2,417.8	0.00	0.00	0.00
9,100.0	90.10	248.03	6,774.4	-942.0	-2,335.0	2,517.8	0.00	0.00	0.00
9,200.0	90.10	248.03	6,774.2	-979.4	-2,427.7	2,617.8	0.00	0.00	0.00
9,300.0	90.10	248.03	6,774.0	-1,016.8	-2,520.4	2,717.8	0.00	0.00	0.00
9,400.0	90.10	248.03	6,773.9	-1,054.2	-2,613.2	2,817.8	0.00	0.00	0.00
9,500.0	90.10	248.03	6,773.7	-1,091.6	-2,705.9	2,917.8	0.00	0.00	0.00
9,600.0	90.10	248.03	6,773.5	-1,129.0	-2,798.7	3,017.8	0.00	0.00	0.00
9,700.0	90.10	248.03	6,773.3	-1,166.4	-2,891.4	3,117.8	0.00	0.00	0.00
9,800.0	90.10	248.03	6,773.2	-1,203.9	-2,984.1	3,217.8	0.00	0.00	0.00
9,900.0	90.10	248.03	6,773.0	-1,241.3	-3,076.9	3,317.8	0.00	0.00	0.00
10,000.0	90.10	248.03	6,772.8	-1,278.7	-3,169.6	3,417.8	0.00	0.00	0.00
10,100.0	90.10	248.03	6,772.6	-1,316.1	-3,262.3	3,517.8	0.00	0.00	0.00
10,200.0	90.10	248.03	6,772.5	-1,353.5	-3,355.1	3,617.8	0.00	0.00	0.00
TD at 10225.6 - PBHL Brennan #6 Lat #2 - PBHL Brennan #6 Lat #2									
10,225.6	90.10	248.03	6,772.4	-1,363.1	-3,378.8	3,643.4	0.00	0.00	0.00

Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
PBHL Brennan #6 Lat #2	0.00	0.00	6,772.4	-1,363.1	-3,378.8	7,246,364.33	2,166,187.48	40° 11' 52.647 N	109° 37' 3.366 W
- plan hits target									
- Point									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
6,342.0	6,342.0	Casing Collar 6342' MD	5-1/2	6

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,300.0	3,300.0	Green River		-0.10	248.03
6,552.6	6,543.0	G1 Lime Top Porosity		-0.10	248.03
6,557.2	6,547.0	G1 Lime Bottom Porosity		-0.10	248.03
6,988.8	6,776.0	H4a Lime Top Porosity		-0.10	248.03
	6,782.0	H4a Lime Bottom Porosity		-0.10	248.03



Pathfinder Energy Services
Planning Report



Database: EDM 2003.16 Single User Db
Company: Questar Exploration & Production
Project: Uintah Co., UT
Site: Sec.19-T7S-R21E
Well: Brennan Federal #6
Wellbore: Wellbore Lat #2
Design: Plan #1

Local Co-ordinate Reference: Well Brennan Federal #6
TVD Reference: WELL @ 4691.0ft (Original Well Elev)
MD Reference: WELL @ 4691.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
6,321.8	6,321.8	0.0	0.0	KOP / Start Build 12.56°.
7,039.2	6,778.0	-171.0	-423.8	Start 3186.5 hold at 7039.2 MD
10,225.6	6,772.4	-1,363.1	-3,378.8	TD at 10225.6



Company: Questar Exploration & Production
Field: Uintah Co., UT
Location: Sec.19-T7S-R21E
Well: Brennan Federal #6
Wellbore Lat #2
Plan: Plan #1 (Brennan Federal #6/Wellbore Lat #2)



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	6321.8	0.00	0.00	6321.8	0.0	0.0	0.00	0.00	0.0	
2	7039.2	90.10	248.03	6778.0	-171.0	-423.8	12.56	248.03	457.0	PBHL Brennan #6 Lat #2
3	10225.6	90.10	248.03	6772.4	-1363.1	-3378.8	0.00	0.00	3643.4	PBHL Brennan #6 Lat #2

WELL DETAILS: Brennan Federal #6

		Ground Level: 4679.0			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	7247798.66	2169536.68	40° 12' 6.120 N	109° 36' 19.820 W

WELLBORE TARGET DETAILS

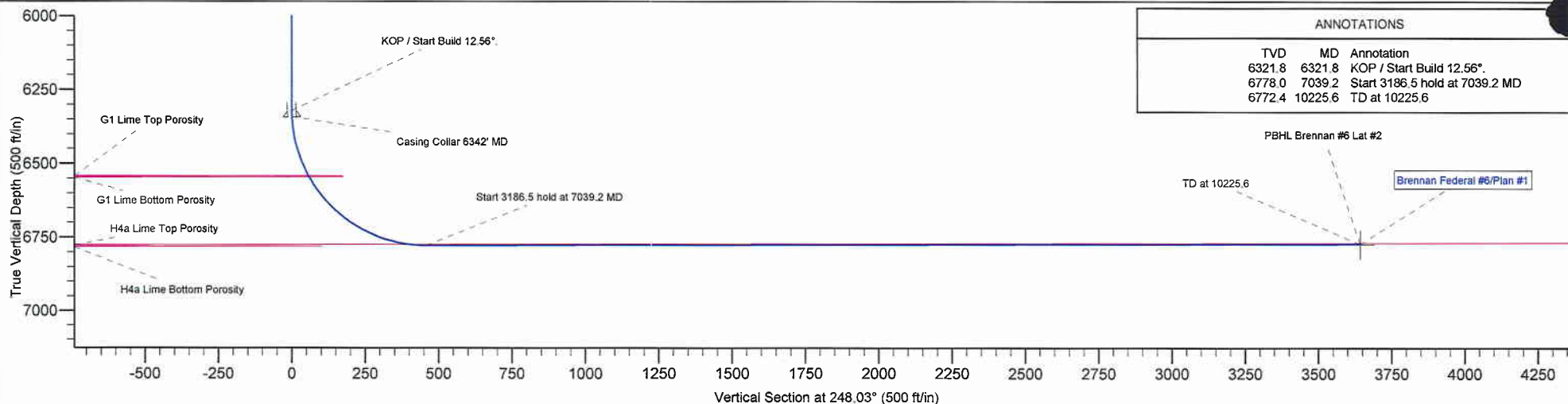
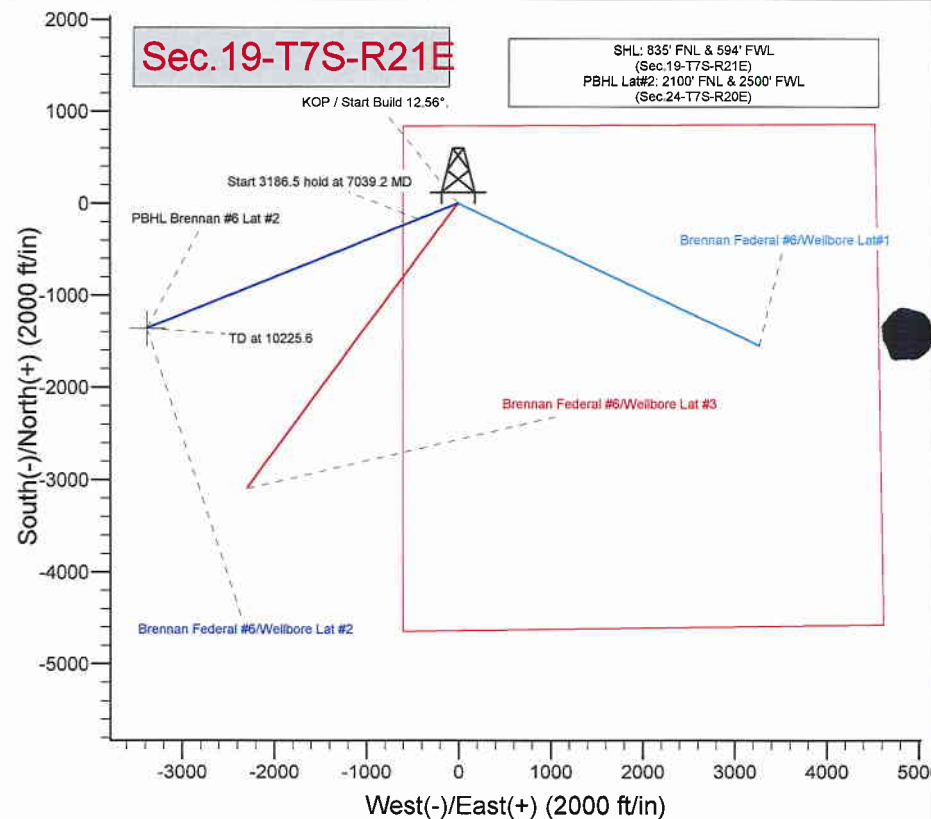
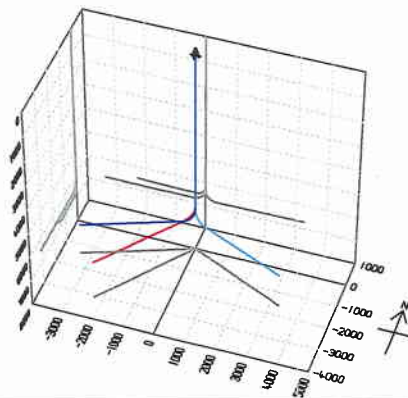
Name	TVD	+N/-S	+E/-W	Shape
PBHL Brennan #6 Lat #2	6772.4	-1363.1	-3378.8	Point

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3300.0	3300.0	H4a Lime Bottom Porosity
6542.9	6552.6	G1 Lime Top Porosity
6546.9	6557.2	G1 Lime Bottom Porosity
6775.3	6988.8	H4a Lime Top Porosity



Azimuths to True North
Magnetic North: 11.57°
Magnetic Field
Strength: 52819.2snT
Dip Angle: 66.11°
Date: 2/13/2008
Model: IGRF200510



ANNOTATIONS

TVD	MD	Annotation
6321.8	6321.8	KOP / Start Build 12.56°
6778.0	7039.2	Start 3186.5 hold at 7039.2 MD
6772.4	10225.6	TD at 10225.6



Questar Exploration & Production

Uintah Co., UT

Sec.19-T7S-R21E

Brennan Federal #6

Wellbore Lat #3

Plan: Plan #1

Pathfinder Planning Report

18 March, 2008





Pathfinder Energy Services
Planning Report



Database: EDM 2003.16 Single User Db
Company: Questar Exploration & Production
Project: Uintah Co., UT
Site: Sec.19-T7S-R21E
Well: Brennan Federal #6
Wellbore: Wellbore Lat #3
Design: Plan #1

Local Co-ordinate Reference: Well Brennan Federal #6
TVD Reference: WELL @ 4691.0ft (Original Well Elev)
MD Reference: WELL @ 4691.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Project	Uintah Co., UT		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site	Sec.19-T7S-R21E		
Site Position:		Northing:	7,247,798.66 ft
From:	Lat/Long	Easting:	2,169,536.68 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	40° 12' 6.120 N
		Longitude:	109° 36' 19.820 W
		Grid Convergence:	1.21 °

Well	Brennan Federal #6		
Well Position	+N/-S	0.0 ft	Northing:
	+E/-W	0.0 ft	Easting:
Position Uncertainty		0.0 ft	Wellhead Elevation:
			ft
			Latitude:
			40° 12' 6.120 N
			Longitude:
			109° 36' 19.820 W
			Ground Level:
			4,679.0 ft

Wellbore	Wellbore Lat #3				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	2/13/2008	11.57	66.11	52,819

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	6,110.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	216.53

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
6,110.0	0.00	0.00	6,110.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,789.8	90.75	216.53	6,539.1	-349.4	-258.8	13.35	13.35	0.00	216.53	PBHL Brennan #6 Lat
10,210.0	90.75	216.53	6,494.4	-3,097.5	-2,294.5	0.00	0.00	0.00	0.00	PBHL Brennan #6 Lat

Database: EDM 2003.16 Single User Db
Company: Questar Exploration & Production
Project: Uintah Co., UT
Site: Sec.19-T7S-R21E
Well: Brennan Federal #6
Wellbore: Wellbore Lat #3
Design: Plan #1

Local Co-ordinate Reference: Well Brennan Federal #6
TVD Reference: WELL @ 4691.0ft (Original Well Elev)
MD Reference: WELL @ 4691.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
KOP / Start Build 13.35°									
6,110.0	0.00	0.00	6,110.0	0.0	0.0	0.0	0.00	0.00	0.00
6,125.0	2.00	216.53	6,125.0	-0.2	-0.2	0.3	13.35	13.35	0.00
Casing Collar 6127' MD									
6,127.0	2.27	216.53	6,127.0	-0.3	-0.2	0.3	13.35	13.35	0.00
6,150.0	5.34	216.53	6,149.9	-1.5	-1.1	1.9	13.35	13.35	0.00
6,175.0	8.68	216.53	6,174.8	-3.9	-2.9	4.9	13.35	13.35	0.00
6,200.0	12.02	216.53	6,199.3	-7.6	-5.6	9.4	13.35	13.35	0.00
6,225.0	15.35	216.53	6,223.6	-12.3	-9.1	15.3	13.35	13.35	0.00
6,250.0	18.69	216.53	6,247.5	-18.2	-13.5	22.6	13.35	13.35	0.00
6,275.0	22.03	216.53	6,271.0	-25.2	-18.6	31.3	13.35	13.35	0.00
6,300.0	25.37	216.53	6,293.9	-33.2	-24.6	41.4	13.35	13.35	0.00
6,325.0	28.70	216.53	6,316.1	-42.4	-31.4	52.7	13.35	13.35	0.00
6,350.0	32.04	216.53	6,337.7	-52.5	-38.9	65.4	13.35	13.35	0.00
6,375.0	35.38	216.53	6,358.5	-63.7	-47.2	79.2	13.35	13.35	0.00
6,400.0	38.72	216.53	6,378.4	-75.8	-56.1	94.3	13.35	13.35	0.00
6,425.0	42.05	216.53	6,397.5	-88.8	-65.8	110.5	13.35	13.35	0.00
6,450.0	45.39	216.53	6,415.5	-102.7	-76.1	127.8	13.35	13.35	0.00
6,475.0	48.73	216.53	6,432.6	-117.4	-86.9	146.1	13.35	13.35	0.00
6,500.0	52.07	216.53	6,448.5	-132.9	-98.4	165.3	13.35	13.35	0.00
6,525.0	55.40	216.53	6,463.3	-149.1	-110.4	185.5	13.35	13.35	0.00
6,550.0	58.74	216.53	6,476.9	-165.9	-122.9	206.5	13.35	13.35	0.00
6,575.0	62.08	216.53	6,489.2	-183.4	-135.8	228.2	13.35	13.35	0.00
6,600.0	65.42	216.53	6,500.3	-201.4	-149.2	250.6	13.35	13.35	0.00
6,625.0	68.75	216.53	6,510.0	-219.9	-162.9	273.6	13.35	13.35	0.00
6,650.0	72.09	216.53	6,518.4	-238.8	-176.9	297.2	13.35	13.35	0.00
6,675.0	75.43	216.53	6,525.4	-258.1	-191.2	321.2	13.35	13.35	0.00
6,700.0	78.77	216.53	6,531.0	-277.7	-205.7	345.6	13.35	13.35	0.00
6,725.0	82.10	216.53	6,535.1	-297.5	-220.4	370.2	13.35	13.35	0.00
6,750.0	85.44	216.53	6,537.8	-317.5	-235.2	395.1	13.35	13.35	0.00
G1 Lime Top Porosity									
6,750.1	85.44	216.53	6,537.8	-317.5	-235.2	395.1	0.00	0.00	0.00
6,775.0	88.78	216.53	6,539.1	-337.5	-250.0	420.0	13.38	13.38	0.00
Start 3420.3 hold at 6789.8 MD									
6,789.8	90.75	216.53	6,539.1	-349.4	-258.8	434.8	13.35	13.35	0.00
6,800.0	90.75	216.53	6,539.0	-357.6	-264.9	445.0	0.00	0.00	0.00
6,900.0	90.75	216.53	6,537.7	-437.9	-324.4	545.0	0.00	0.00	0.00
7,000.0	90.75	216.53	6,536.4	-518.3	-383.9	645.0	0.00	0.00	0.00
7,100.0	90.75	216.53	6,535.1	-598.6	-443.4	745.0	0.00	0.00	0.00
7,200.0	90.75	216.53	6,533.8	-679.0	-503.0	845.0	0.00	0.00	0.00
7,300.0	90.75	216.53	6,532.5	-759.3	-562.5	945.0	0.00	0.00	0.00
7,400.0	90.75	216.53	6,531.2	-839.7	-622.0	1,045.0	0.00	0.00	0.00
7,500.0	90.75	216.53	6,529.8	-920.0	-681.5	1,145.0	0.00	0.00	0.00
7,600.0	90.75	216.53	6,528.5	-1,000.4	-741.0	1,245.0	0.00	0.00	0.00
7,700.0	90.75	216.53	6,527.2	-1,080.7	-800.6	1,344.9	0.00	0.00	0.00
7,800.0	90.75	216.53	6,525.9	-1,161.1	-860.1	1,444.9	0.00	0.00	0.00
7,900.0	90.75	216.53	6,524.6	-1,241.4	-919.6	1,544.9	0.00	0.00	0.00
8,000.0	90.75	216.53	6,523.3	-1,321.8	-979.1	1,644.9	0.00	0.00	0.00
8,100.0	90.75	216.53	6,522.0	-1,402.1	-1,038.6	1,744.9	0.00	0.00	0.00
8,200.0	90.75	216.53	6,520.7	-1,482.5	-1,098.1	1,844.9	0.00	0.00	0.00
8,300.0	90.75	216.53	6,519.4	-1,562.8	-1,157.7	1,944.9	0.00	0.00	0.00
8,400.0	90.75	216.53	6,518.1	-1,643.2	-1,217.2	2,044.9	0.00	0.00	0.00
8,500.0	90.75	216.53	6,516.8	-1,723.5	-1,276.7	2,144.9	0.00	0.00	0.00

Database: EDM 2003.16 Single User Db
Company: Questar Exploration & Production
Project: Uintah Co., UT
Site: Sec.19-T7S-R21E
Well: Brennan Federal #6
Wellbore: Wellbore Lat #3
Design: Plan #1

Local Co-ordinate Reference: Well Brennan Federal #6
TVD Reference: WELL @ 4691.0ft (Original Well Elev)
MD Reference: WELL @ 4691.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,600.0	90.75	216.53	6,515.4	-1,803.9	-1,336.2	2,244.9	0.00	0.00	0.00
8,700.0	90.75	216.53	6,514.1	-1,884.2	-1,395.7	2,344.9	0.00	0.00	0.00
8,800.0	90.75	216.53	6,512.8	-1,964.6	-1,455.2	2,444.9	0.00	0.00	0.00
8,900.0	90.75	216.53	6,511.5	-2,044.9	-1,514.8	2,544.8	0.00	0.00	0.00
9,000.0	90.75	216.53	6,510.2	-2,125.3	-1,574.3	2,644.8	0.00	0.00	0.00
9,100.0	90.75	216.53	6,508.9	-2,205.6	-1,633.8	2,744.8	0.00	0.00	0.00
9,200.0	90.75	216.53	6,507.6	-2,286.0	-1,693.3	2,844.8	0.00	0.00	0.00
9,300.0	90.75	216.53	6,506.3	-2,366.3	-1,752.8	2,944.8	0.00	0.00	0.00
9,400.0	90.75	216.53	6,505.0	-2,446.7	-1,812.4	3,044.8	0.00	0.00	0.00
9,500.0	90.75	216.53	6,503.7	-2,527.0	-1,871.9	3,144.8	0.00	0.00	0.00
9,600.0	90.75	216.53	6,502.4	-2,607.4	-1,931.4	3,244.8	0.00	0.00	0.00
9,700.0	90.75	216.53	6,501.1	-2,687.7	-1,990.9	3,344.8	0.00	0.00	0.00
9,800.0	90.75	216.53	6,499.7	-2,768.1	-2,050.4	3,444.8	0.00	0.00	0.00
9,900.0	90.75	216.53	6,498.4	-2,848.4	-2,109.9	3,544.8	0.00	0.00	0.00
10,000.0	90.75	216.53	6,497.1	-2,928.8	-2,169.5	3,644.7	0.00	0.00	0.00
10,100.0	90.75	216.53	6,495.8	-3,009.1	-2,229.0	3,744.7	0.00	0.00	0.00
10,200.0	90.75	216.53	6,494.5	-3,089.5	-2,288.5	3,844.7	0.00	0.00	0.00
TD at 10210.0 - PBHL Brennan #6 Lat #3 - PBHL Brennan #6 Lat #3									
10,210.0	90.75	216.53	6,494.4	-3,097.5	-2,294.5	3,854.8	0.00	0.00	0.00

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL Brennan #6 Lat #3	0.00	0.00	6,494.4	-3,097.5	-2,294.5	7,244,653.23	2,167,308.32	40° 11' 35.507 N	109° 36' 49.389 W
- plan hits target									
- Point									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
6,127.0	6,127.0	Casing Collar 6127' MD	5-1/2	6

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,300.0	3,300.0	Green River		-0.75	216.53
6,750.1	6,543.0	G1 Lime Top Porosity		-0.75	216.53
	6,547.0	G1 Lime Bottom Porosity		-0.75	216.53
	6,776.0	H4a Lime Top Porosity		-0.75	216.53
	6,782.0	H4a Lime Bottom Porosity		-0.75	216.53



Pathfinder Energy Services
Planning Report



Database: EDM 2003.16 Single User Db
Company: Questar Exploration & Production
Project: Uintah Co., UT
Site: Sec.19-T7S-R21E
Well: Brennan Federal #6
Wellbore: Wellbore Lat #3
Design: Plan #1

Local Co-ordinate Reference: Well Brennan Federal #6
TVD Reference: WELL @ 4691.0ft (Original Well Elev)
MD Reference: WELL @ 4691.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
6,110.0	6,110.0	0.0	0.0	KOP / Start Build 13.35°
6,789.8	6,539.1	-349.4	-258.8	Start 3420.3 hold at 6789.8 MD
10,210.0	6,494.4	-3,097.5	-2,294.5	TD at 10210.0



Company: Questar Exploration & Production

Field: Uintah Co., UT

Location: Sec.19-T7S-R21E

Well: Brennan Federal #6

Wellbore Lat #3

Plan: Plan #1 (Brennan Federal #6/Wellbore Lat #3)



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	6110.0	0.00	0.00	6110.0	0.0	0.0	0.00	0.00	0.0	
2	6789.8	90.75	216.53	6539.1	-349.4	-258.8	13.35	216.53	434.8	PBHL Brennan #6 Lat #3
3	10210.0	90.75	216.53	6494.4	-3097.5	-2294.5	0.00	0.00	3854.8	PBHL Brennan #6 Lat #3

WELL DETAILS: Brennan Federal #6

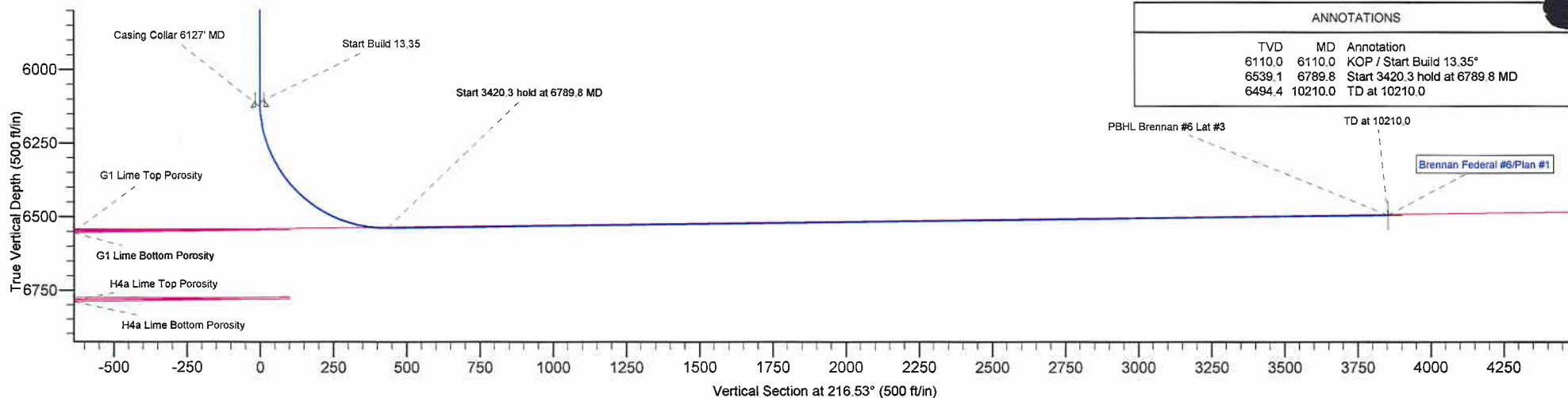
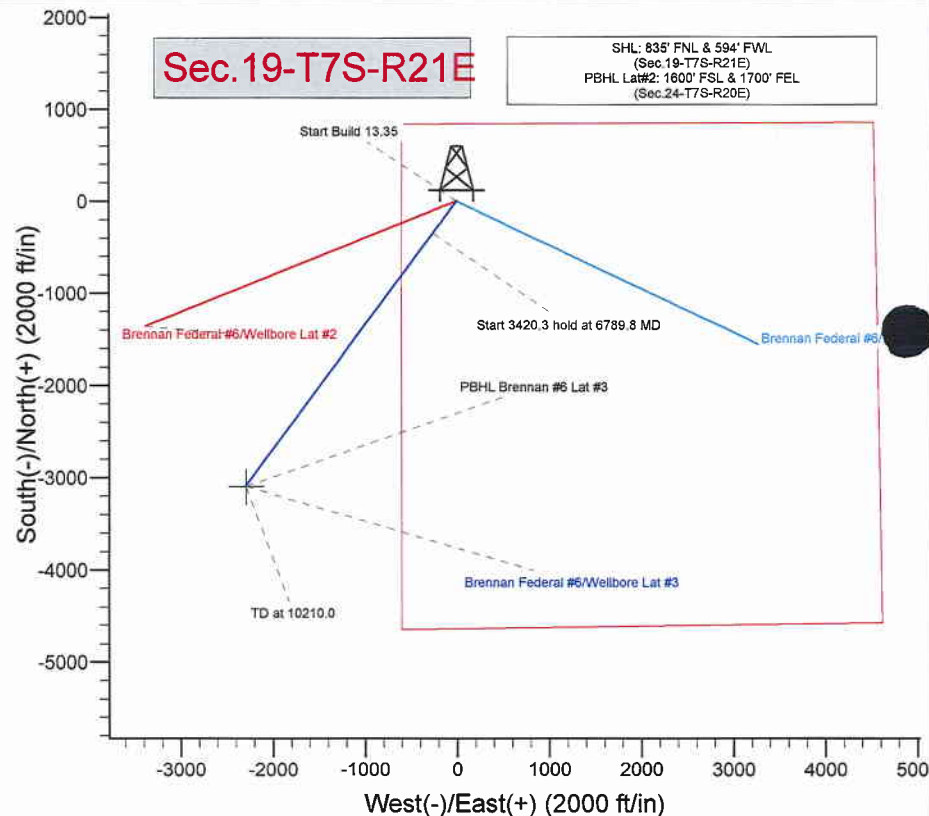
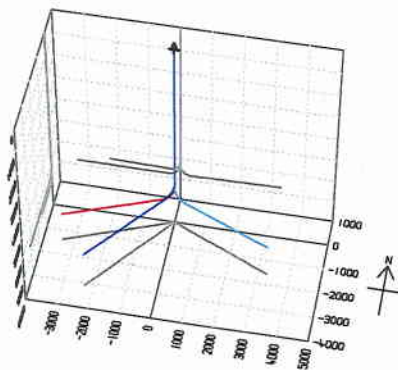
		Ground Level: 4679.0					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot	
0.0	0.0	7247798.66	2169536.68	40° 12' 6.120 N	109° 36' 19.820 W		

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
PBHL Brennan #6 Lat #3	6494.4	-3097.5	-2294.5	Point

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
		G1 Lime Bottom Porosity
		H4a Lime Bottom Porosity
		H4a Lime Top Porosity
3300.0	3300.0	Green River
6537.8	6750.1	G1 Lime Top Porosity



FIELD:REDWASH		GL: 4679' KBE: 4691'	Start Date:03-12-05	Finish Date:03-12-05																																																									
WELL NAME: BREN-6		TD:7150' PBTD:6975'	Current Well Status:OIL																																																										
Location: NW of NW SEC 19 TOWN 7S RANGE 21E Uintah County, Utah		Reason for Pull/Workover: PUMP AND POLISH ROD CHANGE																																																											
<div>Wellbore Schematic</div> <div><div><div>Surface casing</div><div>Size 8 5/8"</div><div>Weight 24#</div><div>Grade K-55</div><div>Cemented</div><div>W/ 350 SXS</div><div>Set @ 333'</div><div>HOLE SIZE 13 3/4"</div></div><div><div>TOC @ 2998'</div><div>OPEN PERFS</div><div>EXCLUDED GAS ZONE</div><div>@ 2670'-2671'</div></div><div><div>6542'-6550</div><div>6630'-6636'</div><div>6650'-6658'</div><div>6682'-6686'</div><div>6694'-6700'</div><div>6705'-6716'</div><div>6730'-6738'</div><div>6738'-6746'</div><div>6776'-6792'</div><div>PSN, TAC</div><div>EOT</div><div>PBTD @7258'</div><div>TD @ 7300'</div></div><div><div>Production casing</div><div>Size 5 1/2"</div><div>Weight17#</div><div>Grade/K-55</div><div>CEMENTED</div><div>W/ 150 SXS</div><div>SET @ 7033'</div><div>HOLE SIZE 7 7/8"</div></div></div>		<div>Tubing Landing Detail:</div> <table><thead><tr><th>Description</th><th>Size</th><th>Footage</th><th>Depth</th></tr></thead><tbody><tr><td>KB to Tbg Head</td><td></td><td>12.00</td><td>12.00</td></tr><tr><td>STRETCH</td><td></td><td>1.50</td><td>12.5</td></tr><tr><td>206 JNTS 2 7/8" J-55</td><td>2 7/8"</td><td>6489.20</td><td>6501.7</td></tr><tr><td>TAC</td><td>4.825</td><td>2.73</td><td>6504.43</td></tr><tr><td>10 JNTS 2 7/8"</td><td>2 7/8"</td><td>313.14</td><td>6817.57</td></tr><tr><td>PSN</td><td>2.25</td><td>1.10</td><td>6818.67</td></tr><tr><td>3" MUD ANCHOR</td><td>2.875</td><td>30.87</td><td>6849.54</td></tr><tr><td>EOT</td><td></td><td></td><td>6849.54</td></tr></tbody></table> <div>TUBING INFORMATION 2 7/8 " 8RD EUE</div> <div>Condition:</div> <div>New: Used: <input checked="" type="checkbox"/> Rerun: </div> <div>Grade: J-55</div> <div>Weight (#/ft): 6.50</div> <div>Sucker Rod Detail:</div> <table><thead><tr><th>Size</th><th>#Rods</th><th>Centralized</th></tr></thead><tbody><tr><td>1 1/2"X26"</td><td>POLISH ROD (NEW)</td><td></td></tr><tr><td>1"</td><td>2' AND 4' SUBS AND 2= 1"X 6'</td><td></td></tr><tr><td>1"</td><td>79 W/ METAL GUIDES</td><td></td></tr><tr><td>7/8"</td><td>18 W/ METAL GUIDES</td><td></td></tr><tr><td>3/4"</td><td>105 SLICK</td><td></td></tr><tr><td>7/8"</td><td>69 SLICK</td><td></td></tr></tbody></table> <div>Rod Information</div> <div>Condition:</div> <div>New: Used: <input checked="" type="checkbox"/> Rerun: </div> <div>Grade: J-55</div> <div>Manufacture: </div> <div>Pump Information:</div> <div>API Designation 2 1/2"X1 1/2"X12X15X16 RHAC</div> <div>Example:</div> <div>PUMP SN# #1679</div> <div>ORIGINAL RUN DATE </div> <div>RERUN NEW RUN <input checked="" type="checkbox"/></div> <div>ESP Well</div> <div>Cable Size: </div> <div>Pump Intake @ </div> <div>End of Pump @ </div> <div>Flowing Well</div> <div>RN @ 1.81" </div> <div>PKR @ </div> <div>EOT @ </div> <div>Wellhead Detail:</div> <div>7 1/16" 2000# </div> <div>7 1/16" 3000# <input checked="" type="checkbox"/></div> <div>7 1/16" 5000# </div> <div>Other: 10" </div> <div>Hanger: Yes No <input checked="" type="checkbox"/></div> <div>SUMMARY</div> <div>1. 6776'-6792', BROKE DOWN W/ 250 GALS OF 15% HCl, THEN ACIDIZED W/ 10,000 GALS 15% HCl, AFTER RECOVERING LOAD, SWABBED BACK 90% OIL @ 6 BPH.</div> <div>2. SET CIBP @ 2700' AND PERFORATED GAS ZONE @ 2670-2671', IMMEDIATELY SQUEEZED SAME W/ 250SX. OF CLASS G, LATER RUNNING CBL AND SHOWING GOOD BOND FROM 2671 TO 1778.</div> <div>NOTE: 2/1988 CLEANED OUT TO 6871' PERFORATED ZONES 6630' THROUGH 6738', THEN ACIDIZED ZONES W/ 6,000 GALS OF 15% HCl.</div> <div>3-12-05 PUMP AND POLISH ROD CHANGE</div>			Description	Size	Footage	Depth	KB to Tbg Head		12.00	12.00	STRETCH		1.50	12.5	206 JNTS 2 7/8" J-55	2 7/8"	6489.20	6501.7	TAC	4.825	2.73	6504.43	10 JNTS 2 7/8"	2 7/8"	313.14	6817.57	PSN	2.25	1.10	6818.67	3" MUD ANCHOR	2.875	30.87	6849.54	EOT			6849.54	Size	#Rods	Centralized	1 1/2"X26"	POLISH ROD (NEW)		1"	2' AND 4' SUBS AND 2= 1"X 6'		1"	79 W/ METAL GUIDES		7/8"	18 W/ METAL GUIDES		3/4"	105 SLICK		7/8"	69 SLICK	
Description	Size	Footage	Depth																																																										
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Prepared By:AILESE JACKSON Date 3-12-05

Lessee's or Operator's Representative:

Jan Nelson
Red Wash Rep.
Questar Exploration & Production Co.
11002 East 17500 South
Vernal, Utah 84078
(435) 781-4331

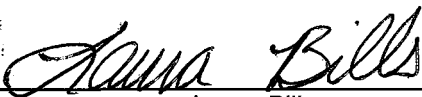
Certification:

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil & Gas Orders, the approved plan of operations, and any applicable Notice to Lessees.

Questar Exploration & Production Co. will be fully responsible for the actions of their subcontractors.

A complete copy of the approved Application for Permit to Drill will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Questar E & P Inc. its' contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.



Laura Bills

Red Wash Representative

10/13/08

Date

QUESTAR EXPLR. & PROD.

BB #6

LOCATED IN UINTAH COUNTY, UTAH
SECTION 19, T7S, R21E, S.L.B.&M.

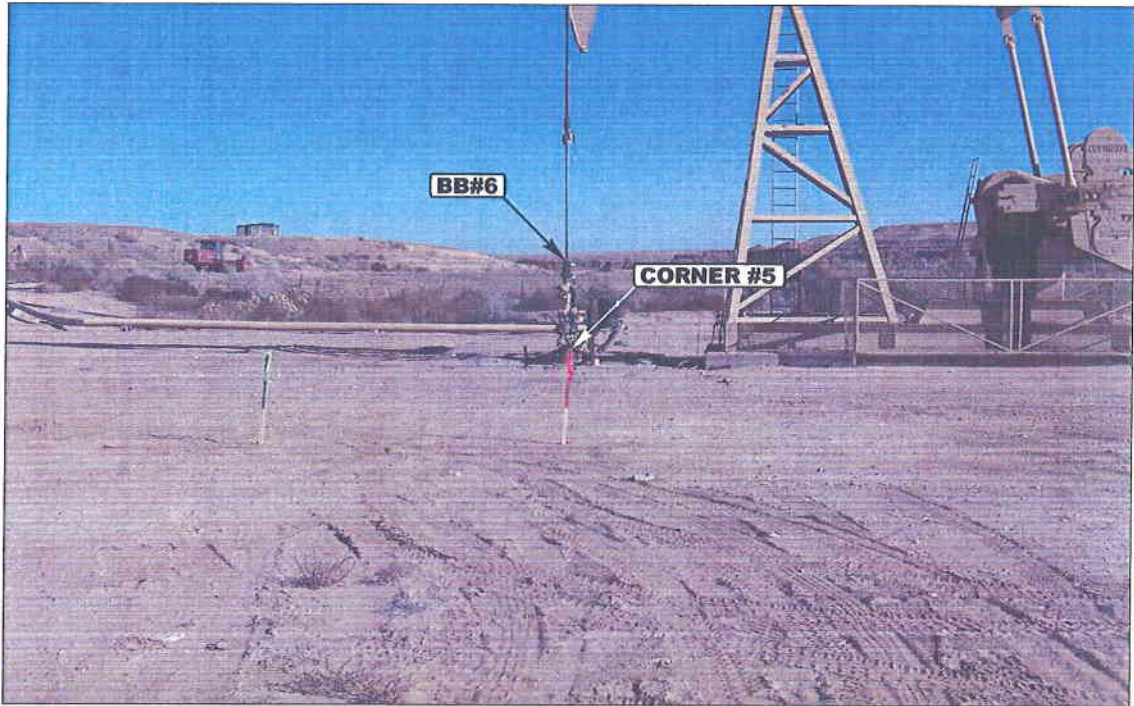


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHEASTERLY



PHOTO: VIEW OF EXISTING ACCESS

CAMERA ANGLE: NORTHEASTERLY



- Since 1964 -

UELS Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

11 08 07
MONTH DAY YEAR

PHOTO

TAKEN BY: D.A.

DRAWN BY: Z.L.

REVISED: 00-00-00

QUESTAR EXPLR. & PROD.

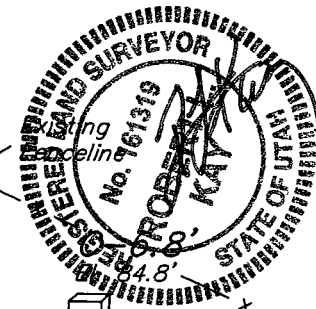
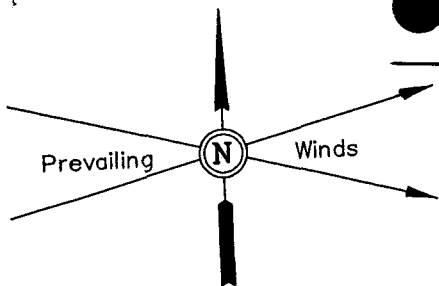
FIGURE #1

LOCATION LAYOUT FOR

BRENNAN #6

SECTION 19, T7S, R21E, S.L.B.&M.

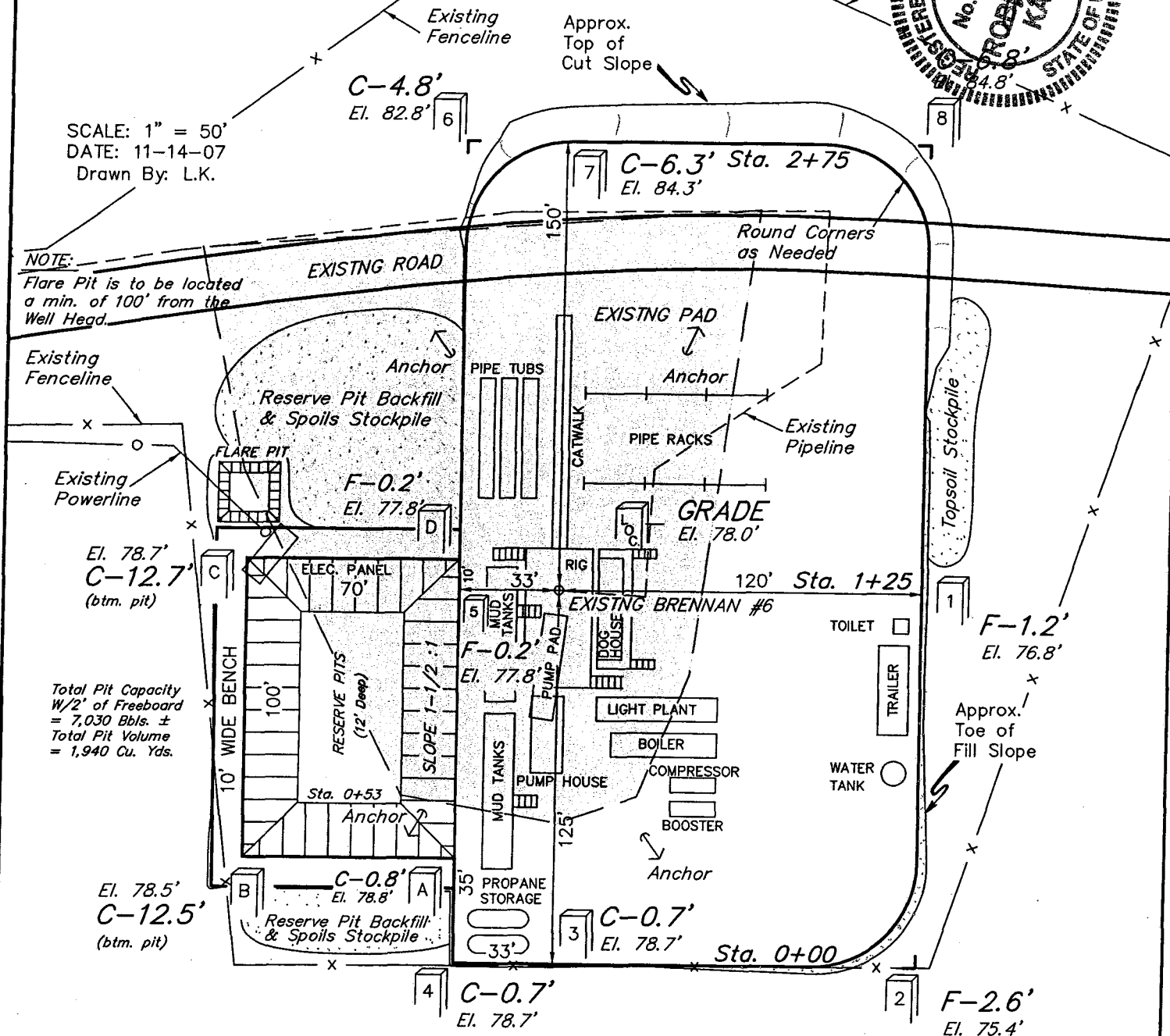
835' FNL 594' FWL



SCALE: 1" = 50'
DATE: 11-14-07
Drawn By: L.K.

NOTE:

Flare Pit is to be located a min. of 100' from the Well Head.



NOTES:

FINISHED GRADE ELEV. AT BB #6 LOC. STAKE = 4678.0'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

QUESTAR EXPLR. & PROD.

FIGURE #2

TYPICAL CROSS SECTIONS FOR

BRENNAN #6

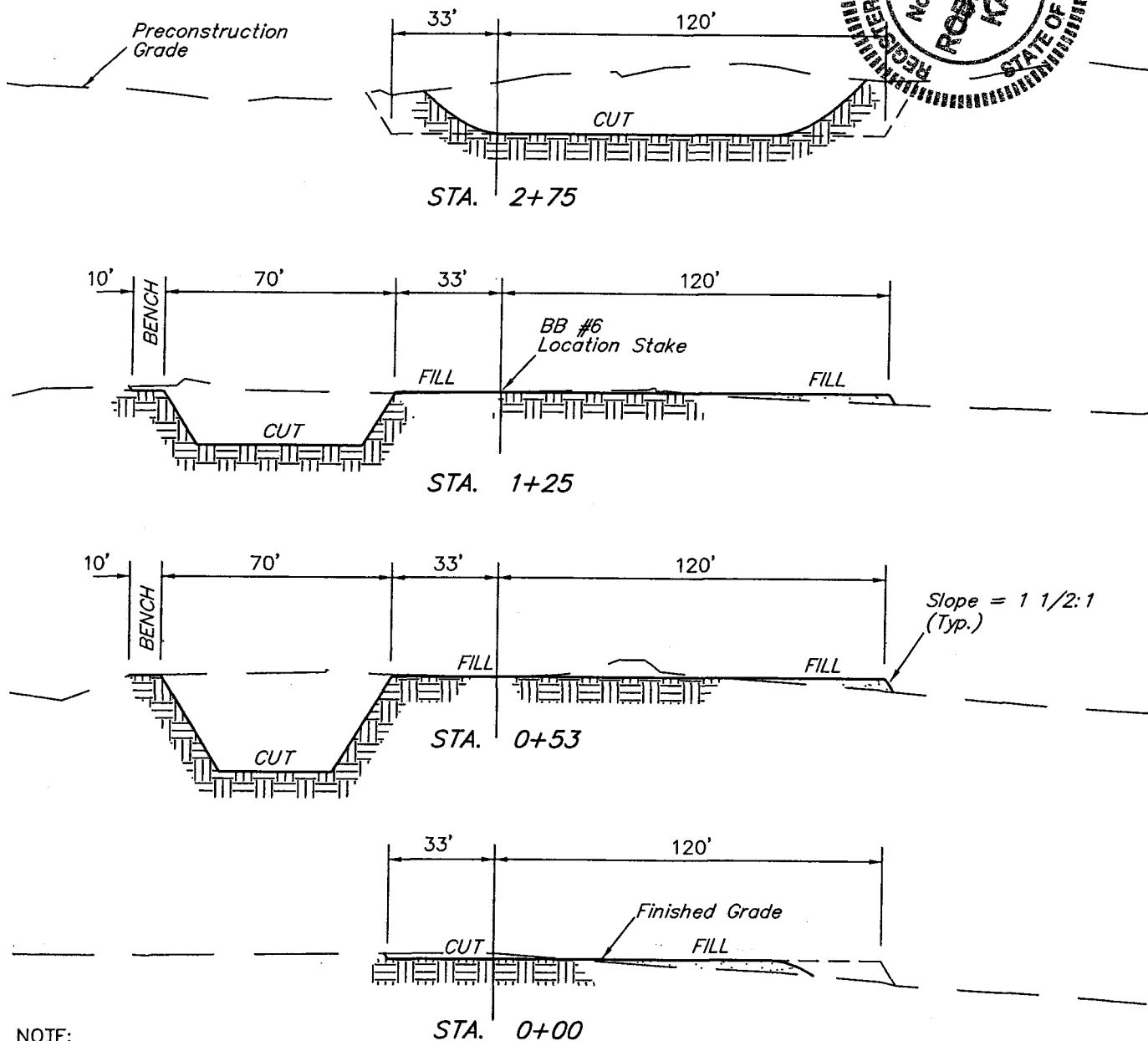
SECTION 19, T7S, R21E, S.L.B.&M.

835' FNL 594' FWL



1" = 20'
X-Section
Scale
1" = 50'

DATE: 11-14-07
Drawn By: L.K.



NOTE:

Topsoil should not be
Stripped Below Finished
Grade on Substructure Area.

* NOTE:
FILL QUANTITY INCLUDES
5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 630 Cu. Yds.
(New Construction Only)	
Remaining Location	= 3,420 Cu. Yds.
TOTAL CUT	= 4,050 CU.YDS.
FILL	= 450 CU.YDS.

APPROXIMATE ACREAGES

WELL SITE DISTURBANCE = ± 1.242 ACRES

Excess Material	= 3,600 Cu. Yds.
Topsoil & Pit Backfill	= 1,600 Cu. Yds.
(1/2 Pit Vol.)	
EXCESS UNBALANCE	= 2,000 Cu. Yds.
(After Interim Rehabilitation)	

UINTAH ENGINEERING & LAND SURVEYING

85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

QUESTAR EXPLR. & PROD.

FIGURE #3

INTERIM RECLAMATION PLAN FOR

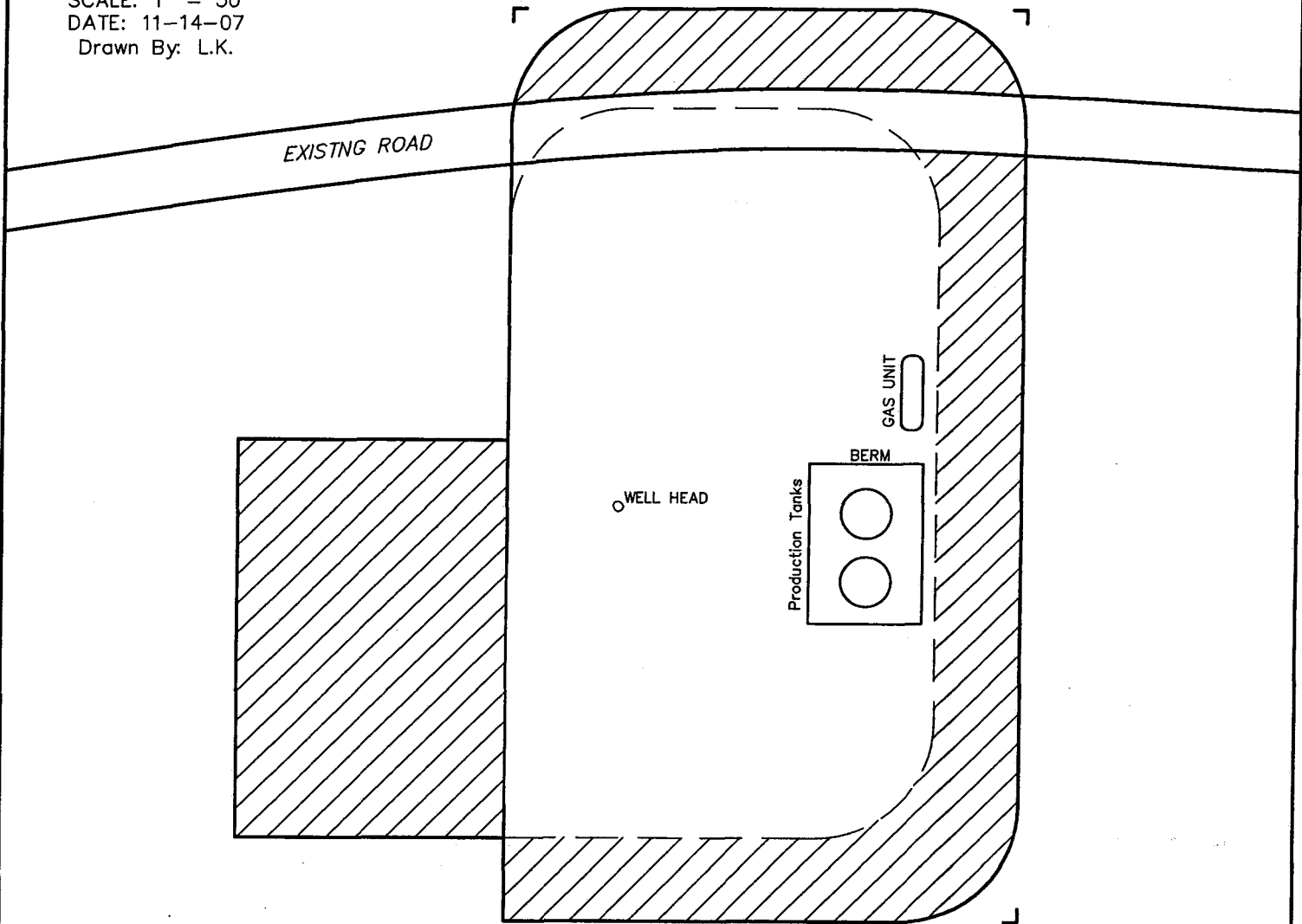
BRENNAN #6

SECTION 19, T7S, R21E, S.L.B.&M.

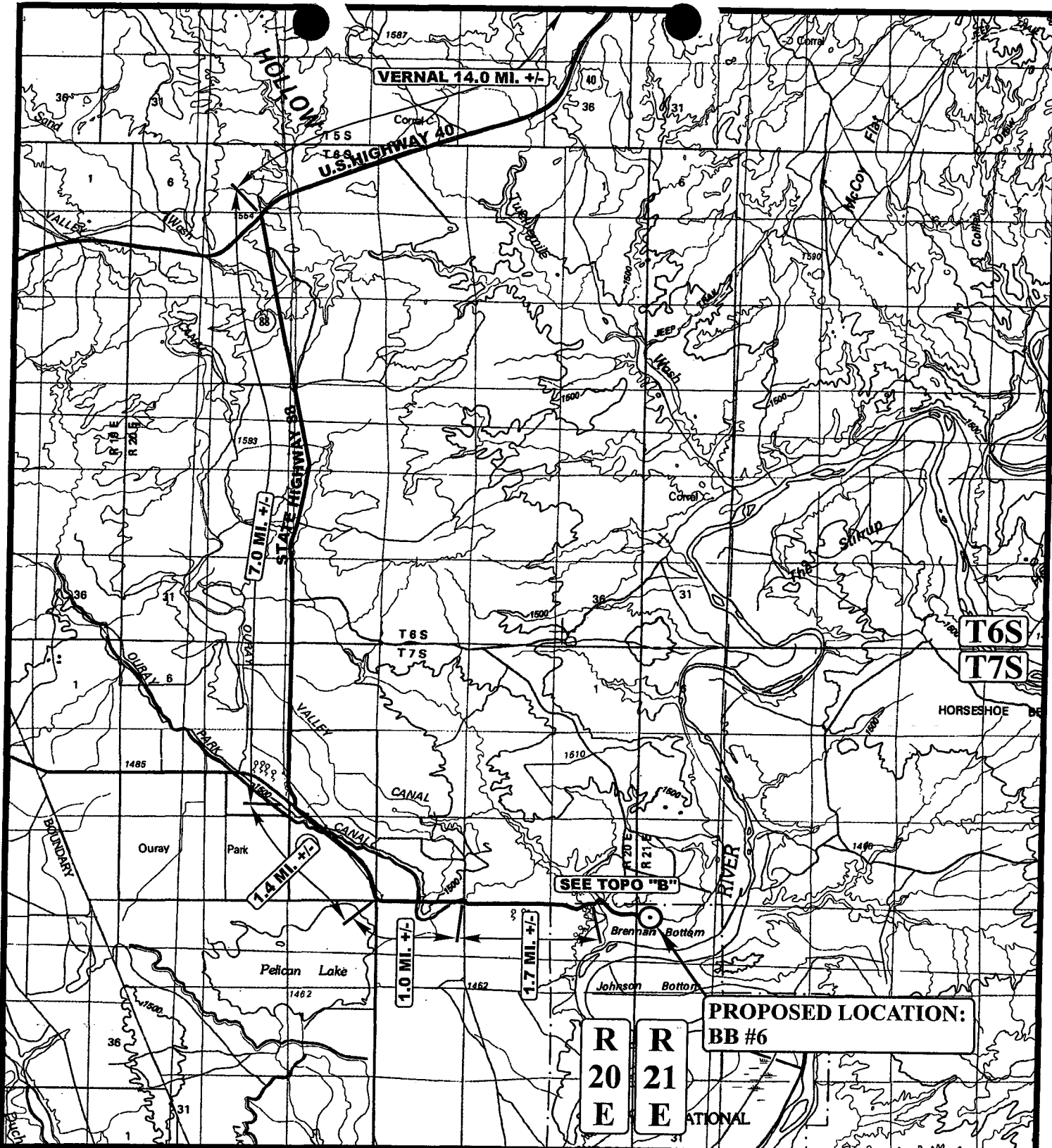
835' FNL 594' FWL



SCALE: 1" = 50'
DATE: 11-14-07
Drawn By: L.K.



INTERIM RECLAMATION



LEGEND:

○ PROPOSED LOCATION

QUESTAR EXPLR. & PROD.

BB #6

SECTION 19, T7S, R21E, S.L.B.&M.

835' FNL 594' FWL



Utah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

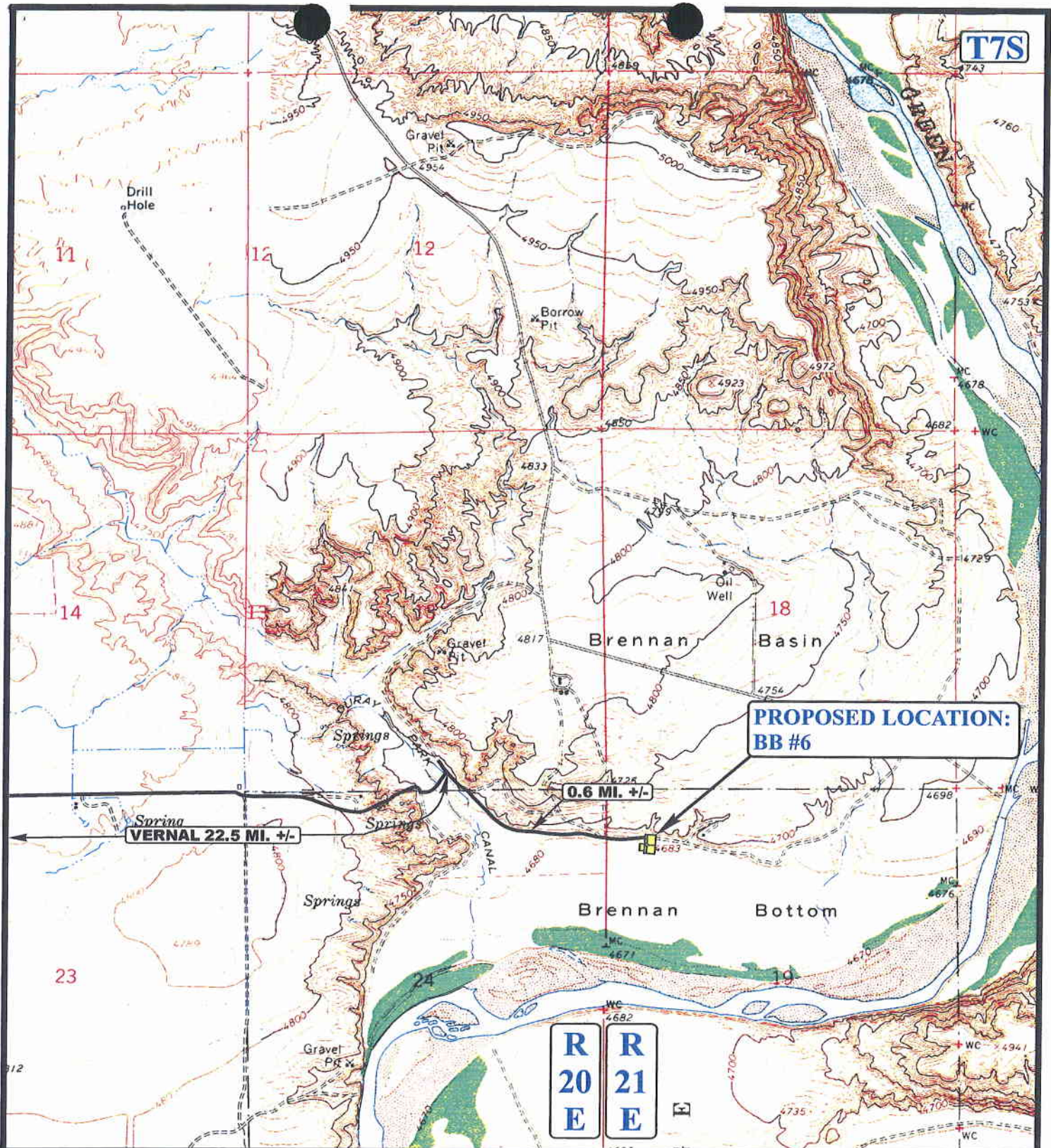


TOPOGRAPHIC
MAP

11	08	07
MONTH	DAY	YEAR

SCALE: 1:100,000 DRAWN BY: Z.L. REVISED: 00-00-00





LEGEND:

EXISTING ROAD

N

QUESTAR EXPLR. & PROD.

BB #6

SECTION 19, T7S, R21E, S.L.B.&M.

835' FNL 594' FWL



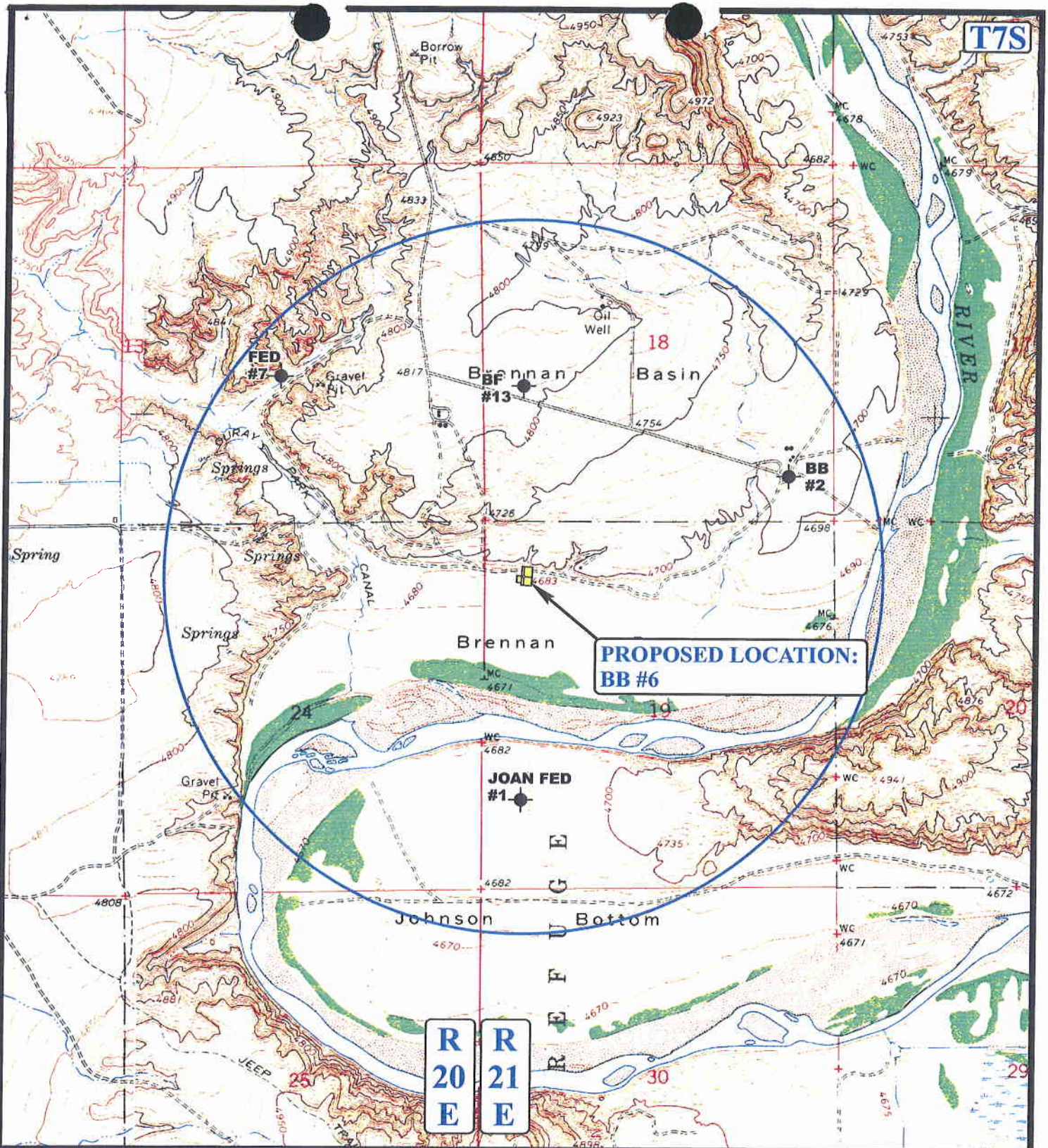
Utah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC
MAP

11 08 07
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: Z.L. REVISED: 00-00-00

B
TOPO



LEGEND:

- ⊗ DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- ⊗ WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED



Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813



QUESTAR EXPLR. & PROD.

BB #6
SECTION 19, T7S, R21E, S.L.B.&M.
835' FNL 594' FWL

TOPOGRAPHIC
MAP

11 08 07
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: Z.L. REVISED: 08-14-07



WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/16/2008

API NO. ASSIGNED: 43-047-30109

WELL NAME: BRENNAN 6

OPERATOR: QUESTAR EXPLORATION & (N5085)

CONTACT: JAN NELSON

PHONE NUMBER: 435-781-4301

PROPOSED LOCATION:

NWNW 19 070S 210E

SURFACE: 0835 FNL 0594 FWL

BOTTOM: 2400 FNL 1300 FEL ** See App For other laterals*

COUNTY: UTAH

LATITUDE: 40.20160 LONGITUDE: -109.6049

UTM SURF EASTINGS: 618743 NORTHINGS: 4450874

FIELD NAME: BRENNAN BOTTOM (560)

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering	DKD	12/29/08
Geology		
Surface		

LEASE TYPE: ~~1 - Fee~~ Federal

LEASE NUMBER: FEE

SURFACE OWNER: 4 - Fee

PROPOSED FORMATION: GRRV

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat
☒ Bond: Fed[] Ind[] Sta[] Fee[]
(No. 965003033)
☒ Potash (Y/N)
☒ Oil Shale 190-5 (B) or 190-3 or 190-13
☒ Water Permit
(No.)
☒ RDCC Review (Y/N)
(Date:)
☒ Fee Surf Agreement (Y/N)
☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

R649-2-3.
Unit: BRENNAN BOTTOM
R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
R649-3-3. Exception
☒ Drilling Unit
Board Cause No: 236-1
Eff Date: 6-18-1994
Siting: *not suspended General Siting*
☒ R649-3-11. Directional Drill

COMMENTS:

Needs Permit (12-10-08)

STIPULATIONS:

1. Federal Approval
2. Statement of Basis

API Number: 4304730109

Well Name: BRENNAN 6

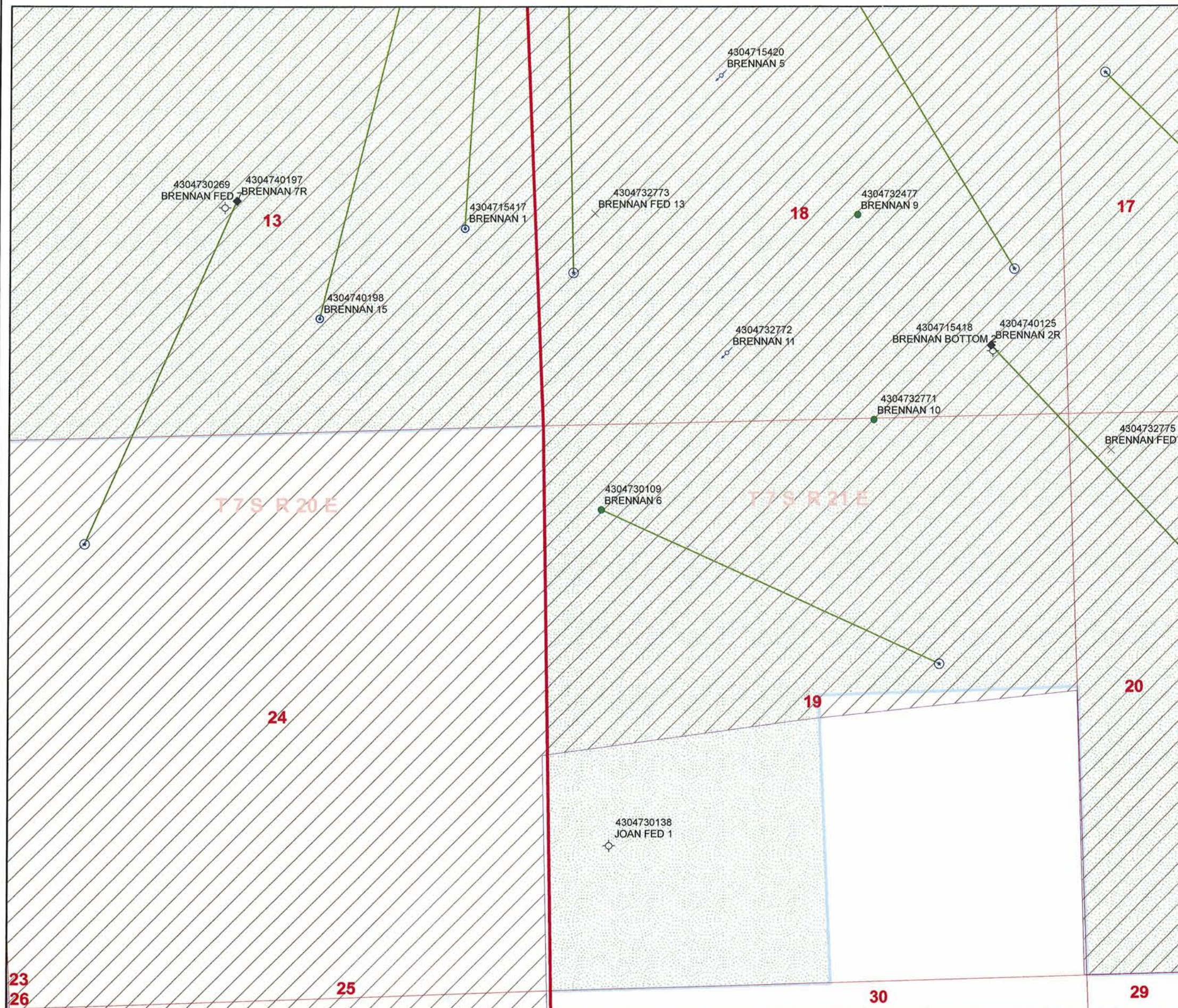
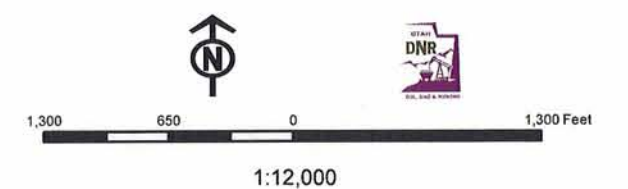
Township 07.0 S Range 21.0 E Section 19

Meridian: SLBM

Operator: QUESTAR EXPLORATION & PRODUCTION CO

Map Prepared:
Map Produced by Diana Mason

Units	Wells Query Events
STATUS	<all other values>
ACTIVE	GIS_STAT_TYPE
EXPLORATORY	<Null>
GAS STORAGE	APD
NF PP OIL	DRL
NF SECONDARY	GI
PI OIL	GS
PP GAS	LA
PP GEOTHERML	NEW
PP OIL	OPS
SECONDARY	PA
TERMINATED	PGW
Fields	POW
STATUS	RET
ACTIVE	SGW
COMBINED	SOW
Sections	TA
Township	TW
	WD
	WI
	WS



Application for Permit to Drill

Statement of Basis

12/11/2008

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM
1210	43-047-30109-00-00		OW	P	No
Operator	QUESTAR EXPLORATION & PRODUCTIO		Surface Owner-APD		
Well Name	BRENNAN 6	Unit	BRENNAN BOTTOM		
Field	BRENNAN BOTTOM		Type of Work		
Location	NWNW 19 7S 21E S 835 FNL 594 FWL GPS Coord (UTM) 618743E 4450874N				

Geologic Statement of Basis

This is a deepening of an existing well. The well currently has 333' of surface casing cemented to surface and 7,300' of production casing cemented to 2,998'. The base of the moderately saline groundwater is estimated to be at 4,700'. The in-place casing and cement should adequately protect any useable ground water in the area.

Brad Hill
APD Evaluator

12/11/2008
Date / Time

Surface Statement of Basis

The proposed re-entry of the existing Brennan #6 producing oil well is to directional drill three laterals from the existing well bore. The existing bore will be plugged below a window to be cut where the 3 laterals will leave the existing casing.

The existing pad will be re-enlarged to approximately the previous size requiring minor earth movement. The existing pad and enlarged area show no surface indicators of instability and should be an appropriate location for drilling and operating the well as proposed. No additional roads will be required.

A reserve pit 70' x 100' x 12' deep will be dug in the southwest corner of the location. Questar proposes to line the pit with a 40-mil liner.

Floyd Bartlett
Onsite Evaluator

12/10/2008
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 20 mils with a felt subliner shall be properly installed and maintained in the reserve pit.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator QUESTAR EXPLORATION & PRODUCTION CO
Well Name BRENNAN 6
API Number 43-047-30109-0 **APD No** 1210 **Field/Unit** BRENNAN BOTTOM
Location: 1/4,1/4 NWNW **Sec** 19 **Tw** 7S **Rng** 21E 835 FNL 594 FWL
GPS Coord (UTM) 618751 4450877 **Surface Owner**

Participants

Floyd Bartlett (DOGM), Jan Nelson (Questar)

Regional/Local Setting & Topography

The proposed re-entry of the existing Brennan #6 producing oil well is to directional drill three laterals from the existing well bore. The existing bore will be plugged below a window to be cut where the 3 laterals will leave the existing casing.

The existing pad will be re-enlarged to approximately the previous size requiring minor earth movement. The existing pad and enlarged area show no surface indicators of instability and should be an appropriate location for drilling and operating the well as proposed. No additional roads will be required.

Surface Use Plan

Current Surface Use

Existing Well Pad

New Road

Miles	Well Pad		Src Const Material	Surface Formation
0	Width 233	Length 275	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetland N

Flora / Fauna

Existing pad with encroachment of rabbit brush, cheat grass and annuals

Soil Type and Characteristics

Deep sandy loam

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required N

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? N

Paleo Potential Observed? N

Cultural Survey Run? N

Cultural Resources? N

Reserve Pit

Site-Specific Factors

Site Ranking

Distance to Groundwater (feet) 75 to 100

10

Distance to Surface Water (feet) >1000

0

Dist. Nearest Municipal Well (ft) >5280

0

Distance to Other Wells (feet) >1320

0

Native Soil Type Mod permeability

10

Fluid Type Fresh Water

5

Drill Cuttings Normal Rock

0

Annual Precipitation (inches) <10

0

Affected Populations <10

0

Presence Nearby Utility Conduits Not Present

0

Final Score

25

1

Sensitivity Level

Characteristics / Requirements

A reserve pit 70' x 100' x 12' deep will be dug in the southwest corner of the location. Questar proposes to line the pit with a 40-mil liner. The Green River is approximately ½ mile south of the site.

Closed Loop Mud Required? N

Liner Required? Y

Liner Thickness 20

Pit Underlayment Required? Y

Other Observations / Comments

Floyd Bartlett

12/10/2008

Evaluator

Date / Time

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160
(UT-922)

December 5, 2008

Memorandum

To: Assistant District Manager Minerals, Vernal District
From: Michael Coulthard, Petroleum Engineer
Subject: 2008 Plan of Development Brennan Bottom Unit, Uintah
County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following well will be re-entered and completed horizontally in calendar year 2008 within the Brennan Bottom Unit, Uintah County, Utah

API #	WELL NAME	LOCATION
-------	-----------	----------

(Proposed PZ Green River)

43-047-30109 Brennan 6 Sec 19 T07S R21E 0835 FNL 0594 FWL
LAT #1 Sec 19 T07S R21E 2400 FNL 1300 FEL
LAT #2 Sec 24 T07S R20E 2100 FNL 2500 FWL
LAT #3 Sec 24 T07S R20E 1600 FSL 1700 FEL

This office has no objection to permitting the well at this time.

/s/ Michael L. Coulthard

bcc: File – Brennan Bottom
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:12-5-08



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

December 30, 2008

Questar Exploration & Production Company
11002 E 17500 S
Vernal, UT 84078

Re: Brennan 6 Well, 835' FNL, 594' FWL, NW NW, Sec. 19, T. 7 South, R. 21 East,
Bottom Location 1 – 2400' FNL, 1300' FEL, SW NE, Sec. 19, T. 7 South, R. 21 East,
Bottom Location 2 – 2100' FNL, 2500' FWL, SE NW, Sec. 24, T. 7 South, R. 20 East,
Bottom Location 3 – 1600' FSL, 1700' FEL, NW SE, Sec. 24, T. 7 South, R. 20 East,
Uintah County, Utah.

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-30109.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Uintah County Assessor
Bureau of Land Management, Vernal Office



Operator: Questar Exploration & Production Company
Well Name & Number Brennan 6
API Number: 43-047-30109
Lease: UTU-75760, UTSL 065429

Location:	<u>NW NW</u>	Sec. <u>19</u>	T. <u>7 South</u>	R. <u>21 East</u>
Bottom Location 1:	<u>SW NE</u>	Sec. <u>19</u>	T. <u>7 South</u>	R. <u>21 East</u>
Bottom Location 2:	<u>SE NW</u>	Sec. <u>24</u>	T. <u>7 South</u>	R. <u>20 East</u>
Bottom Location 3:	<u>NW SE</u>	Sec. <u>24</u>	T. <u>7 South</u>	R. <u>20 East</u>

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281 (801) 733-0983 home

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
5. In accordance with Utah Admin. R. 649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.
6. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

TOTS R21E S-19 4304730109

RECEIVED

SEP 21 2009

Questar E & P

Page 1 of 3

Operations Summary Report

DIV. OF OIL, GAS & MINING

Legal Well Name: BRENNAN 6
 Common Well Name: BRENNAN 6
 Event Name: RE-ENTER
 Contractor Name: AZTEC
 Rig Name: AZTEC

Spud Date: 7/8/1971
 Start: 12/2/2008
 End:
 Rig Release:
 Group:
 Rig Number: 777

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
12/2/2008	06:00 - 16:00	10.00	HOT	1		Drilling Prep On 12-2-2008 7:00 AM MIRU hotoiler pumped 100 bbls chemical water down casing, unseat pump, flush tubing with 50 bbls chemical water. POOH with rods. SDFN 5:00 PM. 24 Hour Forecast: Finish POOH with rods and pump, POOH with tubing run, casing scraper. Casing size: 5 1/2" 17# K-55 Casing Depth: 7300'
12/3/2008	06:00 - 16:00	10.00	BOP	1		Drilling Prep On 12-3-2008 7:00 AM Finish POOH and lay down rods and pump. ND WH, NU BOPs, release TAC, change over to tubing equipment. POOH with tubing, TAC and mud anchor. SDFN 5:00 PM. 24 Hour Forecast: Run casing scraper. Casing size: 5 1/2" 17# K-55 Casing Depth: 7300'
9/11/2009	06:00 - 18:00	12.00	LOC	3	MIRU	LOAD OUT RIG AND MOBILIZE FROM FARMINGTON NW TO BRENNAN 6 LOCATION, RECIEVED 5 LOADS, PINNED DERRICK TO CARRIER, RECIEVED 2 7/8 DRILL STRING / 285 JOINTS OF 2 7/8 AOH DP AND 75 JOINTS OF SLH-90 HWDP WAIT ON DAYLIGHT
	18:00 - 06:00	12.00	OTH		MIRU	NOTIFIED DUSTIN DOUCET WITH UT STATE VERBALLY AND UT BLM VIA E-MAIL OF BOP TEST ON SATURDAY 9-12-2009 AT 13:00 HRS
	18:00 -				MIRU	
9/12/2009	06:00 - 18:00	12.00	LOC	4	MIRU	RIG UP SUB, RAMP, AND BACK CARRIER ON. SET WATER TANK AND DOG HOUSE. RAISE DERRICK, RIG UP FLOOR AND START HANGING TOP DRIVE. HAD TO SHUT TRCKS DOWN ON RIG UP DUE TO MUD TANK BEING HELD UP AT COLO. PORT FOR 8 HRS.
	18:00 - 06:00	12.00	OTH		MIRU	WAIT ON DAYLIGHT
9/13/2009	06:00 - 12:00	6.00	LOC	4	MIRU	FINISHED SETTING RIG IN PLACE, FINISH GENERAL RIG UP AND READY TOPDRIVE
	12:00 - 22:00	10.00	BOP	1	MIRU	NIPPLE UP BOPE
	22:00 - 06:00	8.00	BOP	2	MIRU	TEST BOP, CASING TO 300 PSI, 2 FLOOR VALVES, DART VALVE, TOP DRIVE BALL VALVE, BLIND AND PIPE RAMS AN CHOKE MANIFLOD 3000 PSI HIGH, 250 LOW. ANNNULAR 1500 HIGH, 250 LOW- FUNTION TEST ACCULATOR. DONNA KENNY FOR BLM WITNESSED BOP TEST
9/14/2009	06:00 - 07:00	1.00	BOP	2	DRLPRO	TEST BOP
	07:00 - 07:30	0.50	RIG	1	DRLPRO	RIG SERVICE
	07:30 - 08:30	1.00	OTH		DRLPRO	SET WEAR BUSHING
	08:30 - 11:30	3.00	TRP	1	DRLPRO	STRAP AND PICK UPBIT #, CASING SCRAPER, BIT SUB AND BHA
	11:30 - 14:00	2.50	RIG	2	DRLPRO	REPAIR BROKEN HYDRAULIC HOSE ON CARRIER.
	14:00 - 15:00	1.00	OTH		DRLPRO	HOLD SAFETY MEETING AND RIG UP WEATHERFORD LAY DOWN TRUCK
	15:00 - 20:00	5.00	TRP	1	DRLPRO	CONTINUE TO P/U BHA AND DRILL PIPE TO 3600'
	20:00 - 20:30	0.50	RIG	1	DRLPRO	RIG SERVICE
	20:30 - 23:00	2.50	TRP	1	DRLPRO	P/U DRILL PIPE FROM 3600' TO 6108'
	23:00 - 23:30	0.50	REAM	1	DRLPRO	WASH 78' FROM 6108' TO 6155', TAG CIBP AT 6155'
	23:30 - 00:00	0.50	OTH		DRLPRO	RIG DOWN LAY DOWN TRUCK

Operations Summary Report

Legal Well Name: BRENNAN 6
 Common Well Name: BRENNAN 6
 Event Name: RE-ENTER
 Contractor Name: AZTEC
 Rig Name: AZTEC

Spud Date: 7/8/1971
 Start: 12/2/2008
 Rig Release:
 Rig Number: 777
 End:
 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
9/14/2009	00:00 - 02:30	2.50	CIRC	1	DRLPRO	RIG UP HOT OILER AND CIRCULATE HOT WATER AT 275 DEGREES TO CLEAN OUT CASING, R/D HOT OILER, CIRCULATE TO COOL FLUID FOR TRIP
	02:30 - 03:00	0.50	TRP	1	DRLPRO	TRIP OUT OF THE HOLE TO PICK UP WHIPSTOCK
	03:00 - 04:00	1.00	RIG	1	DRLPRO	WORK ON TOPDRIVE SERVICE LOOP
9/15/2009	04:00 - 06:00	2.00	TRP	1	DRLPRO	TRIP OUT OF THE HOLE TO PICK UP WHIPSTOCK
	06:00 - 08:00	2.00	TRP	2	DRLPRO	TRIP OUT OF HOLE FOR WHIPSTOCK
	08:00 - 08:30	0.50	RIG	1	DRLPRO	RIG SERVICE
	08:30 - 09:30	1.00	TRP	1	DRLPRO	PICK UP WHIPSTOCK AND ORIENT TOOLS
	09:30 - 13:00	3.50	TRP	2	DRLPRO	TRIP IN HOLE WITH WHIPSTOCK
	13:00 - 14:00	1.00	LOG	4	DRLPRO	HOLD SAFETY MEETING, RIG UP WIRELINE TRUCK AND GYRO TOOL.
	14:00 - 14:30	0.50	LOG	4	DRLPRO	SEAT GYRO TOOL, ORIENT AND SET WHIPSTOCK @ 217.73 GTF, 6143.46' TO TOP OF WHIPSTOCK
9/16/2009	14:30 - 16:00	1.50	LOG	4	DRLPRO	PULL GYRO TOOL, RIG DOWN WIRELINE TRUCK AND SHEAR FORM WHIPSTOCK
	16:00 - 21:00	5.00	DRL	7	DRLPRO	MILLING WINDOW F/6143 T/6153, 4' OF RAT HOLE
	21:00 - 22:00	1.00	CIRC	1	DRLPRO	PUMP HI-VIS SWEEP
	22:00 - 01:30	3.50	TRP	10	DRLPRO	PUMP SLUG AND T.O.O.H. FOR DIRECTIONAL TOOLS TO 777'
	01:30 - 05:00	3.50	RIG	2	DRLPRO	REPAIR TOP DRIVE ELEVATOR LINK
	05:00 - 06:00	1.00	TRP	10	DRLPRO	TRIP OUT OF HOLE FOR DIRECTIONAL TOOLS
	06:00 - 07:00	1.00	TRP	1	DRLPRO	LAY DOWN MILLS
	07:00 - 08:00	1.00	RIG	1	DRLPRO	RIG SERVICE
	08:00 - 10:30	2.50	RIG	1	DRLPRO	WORK ON TOP DRIVE LINK TILT
	10:30 - 12:30	2.00	TRP	1	DRLPRO	P/U DIRECTIONAL TOOLS AND ORIENT
	12:30 - 16:00	3.50	TRP	1	DRLPRO	TRIP IN THE HOLE AND TAG AT 6153'
	16:00 - 20:30	4.50	TRP	1	DRLPRO	MAKE UP SIDE ENTRY SUB, RIG UP WIRELINE TRUCK AND GYRO, RUN IN THE HOLE AND ORIENT GYRO TOOL
	20:30 - 23:00	2.50	DRL	2	DRLPRO	DIRECTIONAL DRILL FROM 6153' TO 6181' 28 FT
	23:00 - 00:30	1.50	OTH		DRLPRO	POOH WITH GYRO TOOL, MAKE CONNECTION, RUN GYRO BACK IN THE HOLE AND RE-ORIENT
	00:30 - 03:30	3.00	DRL	2	DRLPRO	DIRECTIONAL DRILL FROM 6181' TO 6213 32 FT
	03:30 - 05:00	1.50	OTH		DRLPRO	POOH WITH GYRO TOOL, MAKE CONNECTION, RUN GYRO BACK IN THE HOLE AND RE-ORIENT
	05:00 - 06:00	1.00	DRL	3	DRLPRO	DIRECTIONAL DRILL FROM 6213' TO 6224' 11' 11'/HR SAME PARAMETERS
9/17/2009	06:00 - 08:00	2.00	DRL	2	DRLPRO	DIRECTIONAL DRILL F/6224 T/6244
	08:00 - 09:00	1.00	OTH		DRLPRO	PULL GYRO OUT OF HOLE, LAY DOWN SIDE ENTRY SUB
	09:00 - 12:00	3.00	DRL	2	DRLPRO	DIRECTIONAL DRILL F/6244 T/6307 63'
	12:00 - 12:30	0.50	RIG	1	DRLPRO	ROP 21 FT/HR WOB 14
	12:30 - 02:30	14.00	DRL	2	DRLPRO	LUBRICATE RIG
9/18/2009	02:30 - 06:00	3.50	TRP	10	DRLPRO	DIRECTIONAL DRILL F/6307' T/6498' 191'
	06:00 - 09:30	3.50	TRP	10	DRLPRO	ROP 13.6 FT/HR WOB 16
	09:30 - 11:00	1.50	TRP	1	DRLPRO	NEW TARGET TVD CHANGED TO 6538 AS OF 15:00 HRS AS PER ON SITE GEOLOGIST/DENVER
	11:00 - 17:30	6.50	TRP	10	DRLPRO	PUMP SLUG AND T.O.O.H.
	17:30 - 06:00	12.50	DRL	2	DRLPRO	TRIP OUT OF HOLE FOR BIT
						CHANGE OUT MOTOR AND BIT, ORIENT AND TEST TOOLS, P/U JARS
						TRIP IN HOLE WITH BIT #4
						DIRECTIONAL DRILL FROM 6498' TO 6642' 144'

Operations Summary Report

Legal Well Name: BRENNAN 6

Common Well Name: BRENNAN 6

Spud Date: 7/8/1971

Event Name: RE-ENTER

Start: 12/2/2008

End:

Contractor Name: AZTEC

Rig Release:

Group:

Rig Name: AZTEC

Rig Number: 777

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
9/18/2009	17:30 - 06:00	12.50	DRL	2	DRLPRO	ROP 11.5 FT/HR WOB 12/15
9/19/2009	06:00 - 12:30	6.50	DRL	2	DRLPRO	DIRECTIONAL DRILL FROM 6642' TO 6711' 69'
						ROP 10.6 FT/HR WOB 14/20 RPM 257(SLIDE) 297(ROTATE)
	12:30 - 13:00	0.50	RIG	1	DRLPRO	RIG SERVICE
	13:00 - 00:00	11.00	DRL	2	DRLPRO	DIRECTIONAL DRILL FROM 6711' TO 6874' 163'
						ROP 14.8 FT/HR WOB 12/22 RPM 257(SLIDE) 297 (ROTATE)
	00:00 - 01:00	1.00	CIRC	1	DRLPRO	CIRCULATE UP SAMPLE, PUMP TRIP SLUG
	01:00 - 06:00	5.00	TRP	10	DRLPRO	T.O.O.H. FOR BIT#5
9/20/2009	06:00 - 07:00	1.00	TRP	1	DRLPRO	CHANGE OUT BIT AND MOTOR, ORIENT TOOLS
	07:00 - 08:30	1.50	TRP	2	DRLPRO	TRIP IN HOLE WITH BIT #5
	08:30 - 14:30	6.00	RIG	2	DRLPRO	RIG REPAIR-WORK ON RIGHT ANGLE DRIVE COOLING PROBLEM FOR DRAWWORKS AND TOP DRIVE.
	14:30 - 19:00	4.50	TRP	10	DRLPRO	TRIP IN HOLE WITH BIT #5- TIGHT @ 6543'
	19:00 - 19:30	0.50	REAM	1	DRLPRO	WASH 25' TO BOTTOM
	19:30 - 06:00	10.50	DRL	1	DRLPRO	DRILLING F/6874' T/6948' 74'
						ROP 7.0 FT/HR WOB 4/15 RPM 205(SLIDE) 245(ROTATE)
9/21/2009	06:00 - 09:30	3.50	DRL	2	DRLPRO	DIRECTIONAL DRILLING F/6948 T/6964
	09:30 - 10:30	1.00	CIRC	1	DRLPRO	PUMP HIGH VIS SWEEP AND CIRCULATE OUT OF HOLE
	10:30 - 15:00	4.50	TRP	2	DRLPRO	TRIP OUT OF HOLE FOR NEW BHA, LAY DOWN 8 JOINTS OF DRILL PIPE
	15:00 - 16:00	1.00	TRP	1	DRLPRO	CHANGE OUT MOTOR AND BIT AND ORIENT
	16:00 - 22:30	6.50	TRP	2	DRLPRO	TRIP IN THE HOLE TO 6715'
	22:30 - 23:30	1.00	DRL	3	DRLPRO	ORIENT DIRECTIONAL TOOLS AND ESTABLISH A TROUGH FROM 6711' TO 6722'
	23:30 - 02:30	3.00	DRL	7	DRLPRO	SIDE TRACK WELL AND TIME DRILL FROM 6722' TO 6732' 10'
						ROP 3.3 FT/HR WOB 0-1
	02:30 - 06:00	3.50	DRL	2	DRLPRO	DIRECTIONAL DRILL F/6732' T/6755' 23'
						ROP 6.6 FT/HR WOB 15/20 RPM 257 (SLIDE)

<div>STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING</div>		<div>FORM 9</div> <div>5.LEASE DESIGNATION AND SERIAL NUMBER: UTSL-065429</div>	
<div>SUNDRY NOTICES AND REPORTS ON WELLS</div> <div>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.</div>		<div>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</div> <div>7.UNIT or CA AGREEMENT NAME: BRENNAN BOTTOM</div>	
<div>1. TYPE OF WELL Oil Well</div>		<div>8. WELL NAME and NUMBER: BRENNAN 6</div>	
<div>2. NAME OF OPERATOR: QUESTAR EXPLORATION & PRODUCTION CO</div>		<div>9. API NUMBER: 43047301090000</div>	
<div>3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, UT, 84078</div>		<div>PHONE NUMBER: 435 781-4362 Ext</div>	
<div>9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM</div>		<div>4. LOCATION OF WELL FOOTAGES AT SURFACE: 0835 FNL 0594 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 19 Township: 07.0S Range: 21.0E Meridian: S</div>	
<div>COUNTY: UINTAH</div>		<div>STATE: UTAH</div>	
<div>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</div>			
<div>TYPE OF SUBMISSION</div>		<div>TYPE OF ACTION</div>	
<div><input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:</div> <div><input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/7/2009</div> <div><input type="checkbox"/> SPUD REPORT Date of Spud:</div> <div><input type="checkbox"/> DRILLING REPORT Report Date:</div>		<div><div><input type="checkbox"/> ACIDIZE</div><div><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</div><div><input type="checkbox"/> CHANGE WELL STATUS</div><div><input type="checkbox"/> DEEPEN</div><div><input type="checkbox"/> OPERATOR CHANGE</div><div><input type="checkbox"/> PRODUCTION START OR RESUME</div><div><input type="checkbox"/> REPERFORATE CURRENT FORMATION</div><div><input type="checkbox"/> TUBING REPAIR</div><div><input type="checkbox"/> WATER SHUTOFF</div><div><input type="checkbox"/> WILDCAT WELL DETERMINATION</div></div> <div><div><input type="checkbox"/> ALTER CASING</div><div><input type="checkbox"/> CHANGE TUBING</div><div><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</div><div><input type="checkbox"/> FRACTURE TREAT</div><div><input type="checkbox"/> PLUG AND ABANDON</div><div><input type="checkbox"/> RECLAMATION OF WELL SITE</div><div><input type="checkbox"/> SIDETRACK TO REPAIR WELL</div><div><input type="checkbox"/> VENT OR FLARE</div><div><input type="checkbox"/> SI TA STATUS EXTENSION</div><div><input checked="" type="checkbox"/> OTHER</div></div> <div><div><input type="checkbox"/> CASING REPAIR</div><div><input type="checkbox"/> CHANGE WELL NAME</div><div><input type="checkbox"/> CONVERT WELL TYPE</div><div><input type="checkbox"/> NEW CONSTRUCTION</div><div><input type="checkbox"/> PLUG BACK</div><div><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</div><div><input type="checkbox"/> TEMPORARY ABANDON</div><div><input type="checkbox"/> WATER DISPOSAL</div><div><input type="checkbox"/> APD EXTENSION</div><div>OTHER: </div></div>	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
FEE1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☐ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other: Re-Entry - Horizontal2. Name of Operator
Questar Exploration & Production Co.

3. Address 11002 EAST 17500 SOUTH - VERNAL, UT 84078

3a. Phone No. (include area code)
435.781.4342 - Dahn Caldwell

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface
835' FNL, 594' FWL, LOT 1, SEC 19-T7S-R21E

835' FNL, 594' FWL, LOT 1, SEC 19-T7S-R21E

At top prod. interval reported below

1289 FSL 1629 FEL
At total depth 1124 FSL, 1612 FEL, LOT 13, SEC 24-T7S-R20E

14. Date Spudded

15. Date T.D. Reached

16. Date Completed 10/24/2009
☐ D & A ☒ Ready to Prod.6. If Indian, Allottee or Tribe Name
N/A

7. Operator's Agreement Name and No.

8. Lease Name and Well No.

BRENNAN 6

9. API Well No.

43-047-30109-00-S1

10. Field and Pool or Exploratory
BRENNAN BOTTOMS11. Sec., T., R., M., on Block and
Survey or Area SEC 19-T7S-R21E

12. County or Parish

UINTAH

13. State

UT

17. Elevations (DF, RKB, RT, GL)*
12' KB18. Total Depth: MD 10255'
TVD 6474'19. Plug Back T.D.: MD CIBP 6153'
TVD 615020. Depth Bridge Plug Set: MD CIBP 6153'
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

NO CURRENT LOGS HAVE BEEN RUN IN THIS HORIZONTAL HOLE.

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit report)
Directional Survey? ☐ No ☒ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	6101'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GREEN RIVER G-1 LIME	6143'	6153'	PERF SLOTTED LINER	3-1/2"		OPEN
B)			6114' - 10,080'			
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
6143' - 6153'	ACIDIZE W/ 34,500 GALS OF 15% HCL

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
10/24/09	10/27/09		→	203	86	116			PUMPING
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
N/A	150#	60#	→					PRODUCING	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

*(See instructions and spaces for additional data on page 2)

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DIV. OF OIL, GAS & MINING

28b. Production - Interval C									
Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

28c. Production - Interval D									
Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

29. Disposition of Gas (Solid, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers): Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.	31. Formation (Log) Markers GREEN RIVER G-1 LIME HORIZONTAL
--	--

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth

32. Additional remarks (include plugging procedure):

33. Indicate which items have been attached by placing a check in the appropriate boxes:

<input type="checkbox"/> Electrical/Mechanical Logs (1 full set req'd.)	<input type="checkbox"/> Geologic Report	<input type="checkbox"/> DST Report	<input checked="" type="checkbox"/> Directional Survey
<input type="checkbox"/> Sundry Notice for plugging and cement verification	<input type="checkbox"/> Core Analysis	<input type="checkbox"/> Other:	

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) JIM SIMONTON Title COMPLETION SUPERVISOR

Signature Jim Simonton (Hc) Date 11/24/2009

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

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(Form 3160-4, page 2)



Weatherford[®]

Drilling Services

COMPLETION

QUESTAR

QUESTAR EXPLORATION AND PRODUCTION

BRENNAN #6

UINTAH COUNTY, UT

PLAN 1

OCTOBER 6, 2009

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JAN 26 2010

DIV. OF OIL, GAS & MINING

Weatherford International Ltd.

2000 Oil Drive

Casper, Wyoming 82604

+1.307.265.1413 Main

+1.307.235.3958 Fax

www.weatherford.com



Project: UINTAH COUNTY, UTAH
 Site: BRENNAN #6
 Well: BRENNAN #6
 Wellbore: BRENNAN #6
 Design: BRENNAN #6
 Latitude: 40° 12' 6.120 N
 Longitude: 109° 36' 19.820 W
 GL: 4678.00
 KB: WELL @ 4692.40ft (Original Well Elev)

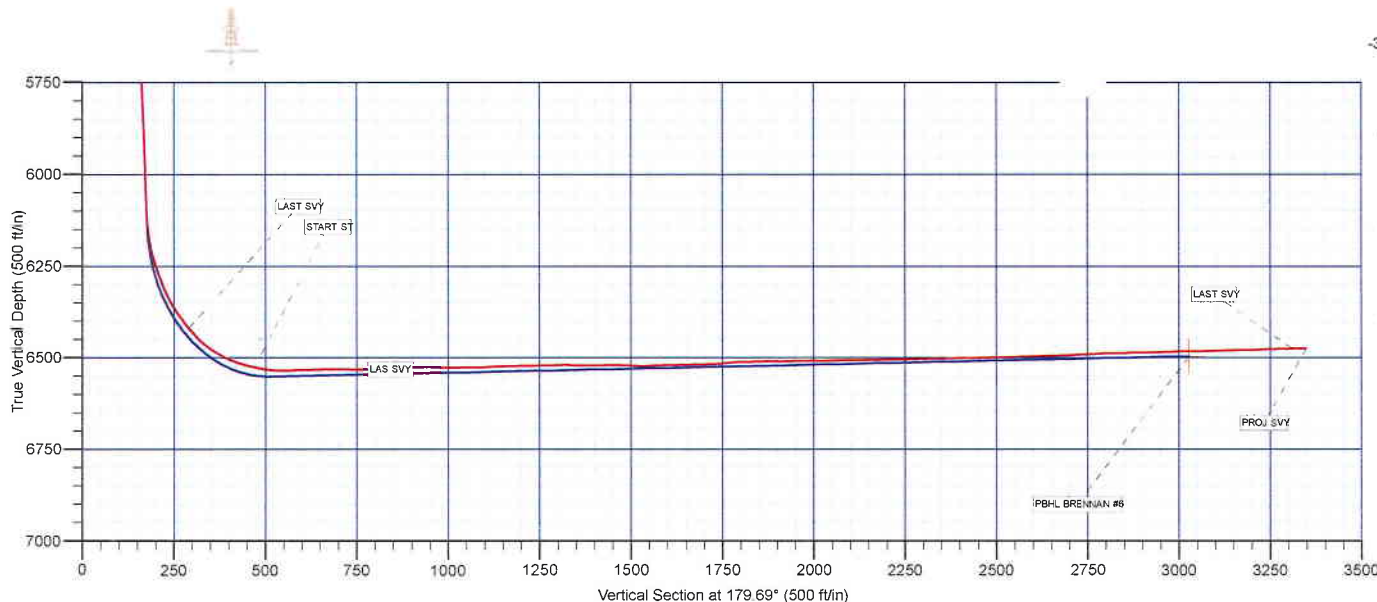


WELLBORE TARGET DETAILS (LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape Point
PBHL BRENNAN #6	6496.12	-3039.18	-2215.77	40° 11' 36.083 N	109° 36' 48.375 W	Point

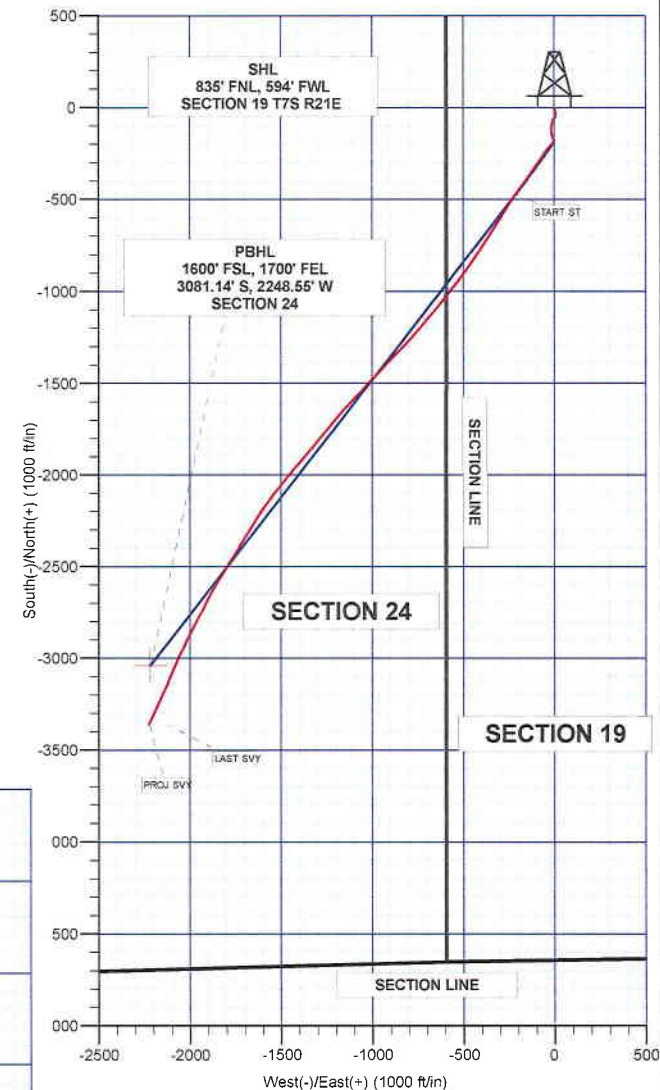
WELL DETAILS: BRENNAN #6						
			Ground Level: 4678.00			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	7247798.66	2169536.68	40° 12' 6.120 N	109° 36' 19.820 W	

SECTION DETAILS										
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Annotation	
6100.00	2.25	157.46	6096.58	-176.20	0.95	0.00	0.00	141.81	Start 52.10 hold at 6100.00 MD	
6152.10	2.25	157.46	6148.64	-178.09	1.74	0.00	0.00	142.88	Start DLS 13.92 TFO 60.52	
6797.88	91.00	218.00	6552.00	-516.68	-244.98	13.92	60.52	561.82	Start 3254.84 hold at 6797.88 MD	
9999.47	91.00	218.00	6496.12	-3039.18	-2215.77	0.00	0.00	3761.15		

LEGEND	
—	BRENNAN #6, BRENNAN #6, Design #1 V0
—	BRENNAN #6
—	Survey #3 ST



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 JAN 26 2010
 DIV. OF OIL, GAS & MINING



Survey: Survey #3 ST (BRENNAN #6/BRENNAN #6)
 Created By: TRACY WILLIAMS Date: 8:29, October 06 2009



QUESTAR EXPLORATION AND PRODUCTION

UINTAH COUNTY, UTAH

BRENNAN #6

BRENNAN #6

BRENNAN #6

Survey: Survey #3 ST

Standard Survey Report

06 October, 2009

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DIV. OF OIL, GAS & MINING



Weatherford®



Weatherford International Ltd.
Survey Report



Company: QUESTAR EXPLORATION AND PRODUCTION
Project: UINTAH COUNTY, UTAH
Site: BRENNAN #6
Well: BRENNAN #6
Wellbore: BRENNAN #6
Design: BRENNAN #6

Local Co-ordinate Reference: Well BRENNAN #6
TVD Reference: WELL @ 4692.40ft (Original Well Elev)
MD Reference: WELL @ 4692.40ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

Project: UINTAH COUNTY, UTAH
Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: Utah Central Zone

System Datum: Mean Sea Level

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JAN 26 2010

Site: BRENNAN #6

DIV. OF OIL, GAS & MINING

Site Position: Northing: 7,247,798.66 ft Latitude: 40° 12' 6.120 N
From: Lat/Long Easting: 2,169,536.68 ft Longitude: 109° 36' 19.820 W
Position Uncertainty: 0.00 ft Slot Radius: " Grid Convergence: 1.21 °

Well: BRENNAN #6

Well Position: +N/-S 0.00 ft Northing: 7,247,798.66 ft Latitude: 40° 12' 6.120 N
+E/-W 0.00 ft Easting: 2,169,536.68 ft Longitude: 109° 36' 19.820 W
Position Uncertainty: 0.00 ft Wellhead Elevation: ft Ground Level: 4,678.00 ft

Wellbore: BRENNAN #6

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2009	9/1/2009	11.41	66.08	52,613

Design: BRENNAN #6

Audit Notes:

Version: 1.0 Phase: ACTUAL Tie On Depth: 0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	179.69

Survey Program Date: 10/6/2009

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
100.00	6,100.00	Survey #1 (BRENNAN #6)	NS-GYRO-MS	North sensing gyrocompassing m/s
6,176.00	6,711.00	Survey #2 (BRENNAN #6)	MWD	MWD - Standard
6,744.00	7,090.00	Survey #3 (BRENNAN #6)	MWD	MWD - Standard

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
START ST									
6,711.00	80.25	216.89	6,525.73	-470.90	-210.93	469.75	0.00	0.00	0.00
6,744.00	82.79	213.60	6,530.60	-497.55	-229.75	496.30	12.51	7.70	-9.97
6,775.00	84.49	213.51	6,534.03	-523.23	-246.78	521.88	5.49	5.48	-0.29
6,807.00	90.69	212.54	6,535.38	-550.02	-264.20	548.58	19.61	19.38	-3.03
6,838.00	93.19	211.66	6,534.33	-576.26	-280.66	574.73	8.55	8.06	-2.84
6,870.00	90.69	212.41	6,533.24	-603.37	-297.62	601.75	8.16	-7.81	2.34
6,900.00	91.13	212.54	6,532.77	-628.68	-313.73	626.97	1.53	1.47	0.43
6,932.00	91.71	211.57	6,531.97	-655.79	-330.71	653.99	3.53	1.81	-3.03
6,963.00	90.69	211.91	6,531.32	-682.15	-347.01	680.26	3.47	-3.29	1.10
6,995.00	89.06	213.04	6,531.39	-709.14	-364.19	707.16	6.20	-5.09	3.53



Weatherford International Ltd.

Survey Report



Company: QUESTAR EXPLORATION AND PRODUCTION
Project: UINTAH COUNTY, UTAH
Site: BRENNAN #6
Well: BRENNAN #6
Wellbore: BRENNAN #6
Design: BRENNAN #6

Local Co-ordinate Reference: Well BRENNAN #6
TVD Reference: WELL @ 4692.40ft (Original Well Elev)
MD Reference: WELL @ 4692.40ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
7,027.00	89.00	213.54	6,531.94	-735.89	-381.75	733.81	1.57	-0.19	1.56
7,058.00	89.13	213.54	6,532.44	-761.72	-398.88	759.55	0.42	0.42	0.00
7,090.00	91.90	214.63	6,532.15	-788.22	-416.81	785.95	9.30	8.66	3.41
7,121.00	93.44	214.79	6,530.71	-813.68	-434.44	811.31	4.99	4.97	0.52
7,143.00	93.44	214.80	6,529.39	-831.71	-446.97	829.28	0.05	0.00	0.05
7,174.00	92.39	214.57	6,527.81	-857.17	-464.59	854.64	3.47	-3.39	-0.74
7,206.00	91.13	216.04	6,526.83	-883.27	-483.08	880.64	6.05	-3.94	4.59
7,238.00	90.75	215.91	6,526.31	-909.16	-501.87	906.43	1.26	-1.19	-0.41
7,269.00	89.25	217.66	6,526.31	-933.99	-520.43	931.16	7.44	-4.84	5.65
7,301.00	88.69	217.66	6,526.88	-959.32	-539.98	956.38	1.75	-1.75	0.00
7,332.00	89.38	218.16	6,527.40	-983.77	-559.03	980.73	2.75	2.23	1.61
7,364.00	90.88	217.91	6,527.33	-1,008.97	-578.74	1,005.83	4.75	4.69	-0.78
7,395.00	91.25	218.41	6,526.75	-1,033.34	-597.89	1,030.09	2.01	1.19	1.61
7,427.00	90.63	218.79	6,526.23	-1,058.35	-617.85	1,054.99	2.27	-1.94	1.19
7,458.00	91.13	220.66	6,525.75	-1,082.19	-637.66	1,078.72	6.24	1.61	6.03
7,490.00	91.56	220.16	6,525.00	-1,106.55	-658.40	1,102.97	2.06	1.34	-1.56
7,522.00	91.54	220.47	6,524.14	-1,130.94	-679.10	1,127.25	0.97	-0.06	0.97
7,553.00	91.50	220.16	6,523.31	-1,154.57	-699.15	1,150.77	1.01	-0.13	-1.00
7,585.00	91.69	220.29	6,522.42	-1,178.99	-719.80	1,175.08	0.72	0.59	0.41
7,616.00	90.63	221.54	6,521.80	-1,202.41	-740.10	1,198.39	5.29	-3.42	4.03
7,648.00	90.94	220.91	6,521.36	-1,226.48	-761.19	1,222.34	2.19	0.97	-1.97
7,680.00	90.75	222.41	6,520.89	-1,250.38	-782.46	1,246.13	4.72	-0.59	4.69
7,711.00	91.30	223.51	6,520.33	-1,273.06	-803.58	1,268.69	3.97	1.77	3.55
7,743.00	91.19	223.79	6,519.64	-1,296.21	-825.66	1,291.72	0.94	-0.34	0.88
7,774.00	90.44	224.41	6,519.20	-1,318.47	-847.23	1,313.86	3.14	-2.42	2.00
7,806.00	87.94	224.16	6,519.65	-1,341.38	-869.57	1,336.65	7.85	-7.81	-0.78
7,837.00	88.88	223.66	6,520.51	-1,363.70	-891.06	1,358.86	3.43	3.03	-1.61
7,869.00	89.50	223.00	6,520.96	-1,386.97	-913.02	1,382.01	2.83	1.94	-2.06
7,901.00	90.75	223.29	6,520.89	-1,410.32	-934.90	1,405.24	4.01	3.91	0.91
7,932.00	92.06	221.79	6,520.13	-1,433.16	-955.85	1,427.96	6.42	4.23	-4.84
7,964.00	89.59	222.61	6,519.67	-1,456.86	-977.34	1,451.54	8.13	-7.72	2.56
7,995.00	88.25	224.04	6,520.25	-1,479.40	-998.61	1,473.97	6.32	-4.32	4.61
8,027.00	88.06	223.66	6,521.28	-1,502.47	-1,020.77	1,496.92	1.33	-0.59	-1.19
8,058.00	89.56	222.90	6,521.93	-1,525.03	-1,042.01	1,519.37	5.42	4.84	-2.45
8,090.00	90.00	223.91	6,522.05	-1,548.28	-1,064.00	1,542.49	3.44	1.38	3.16
8,122.00	92.38	224.66	6,521.39	-1,571.18	-1,086.34	1,565.27	7.80	7.44	2.34
8,153.00	91.38	223.16	6,520.37	-1,593.50	-1,107.82	1,587.48	5.81	-3.23	-4.84
8,185.00	90.31	222.61	6,519.90	-1,616.94	-1,129.60	1,610.80	3.76	-3.34	-1.72
8,216.00	91.25	221.66	6,519.48	-1,639.93	-1,150.39	1,633.68	4.31	3.03	-3.06
8,246.00	90.25	220.79	6,519.08	-1,662.49	-1,170.16	1,656.13	4.42	-3.33	-2.90
8,279.00	91.44	220.66	6,518.60	-1,687.50	-1,191.69	1,681.02	3.63	3.61	-0.39
8,311.00	90.81	219.91	6,517.97	-1,711.90	-1,212.38	1,705.31	3.06	-1.97	-2.34
8,343.00	92.19	219.79	6,517.13	-1,736.46	-1,232.87	1,729.76	4.33	4.31	-0.38
8,374.00	95.31	220.16	6,515.10	-1,760.16	-1,252.74	1,753.35	10.13	10.06	1.19
8,403.00	93.69	219.79	6,512.83	-1,782.32	-1,271.32	1,775.41	5.73	-5.59	-1.28
8,437.00	90.24	217.52	6,511.66	-1,808.85	-1,292.54	1,801.82	12.14	-10.15	-6.68
8,465.00	91.06	220.54	6,511.34	-1,830.60	-1,310.17	1,823.47	11.18	2.93	10.79
8,496.00	92.13	220.91	6,510.48	-1,854.08	-1,330.38	1,846.85	3.65	3.45	1.19
8,528.00	90.50	220.66	6,509.75	-1,878.30	-1,351.28	1,870.96	5.15	-5.09	-0.78
8,559.00	89.06	219.41	6,509.87	-1,902.04	-1,371.22	1,894.58	6.15	-4.65	-4.03
8,591.00	90.63	220.66	6,509.95	-1,926.53	-1,391.80	1,918.97	6.27	4.91	3.91
8,623.00	91.04	221.06	6,509.49	-1,950.73	-1,412.74	1,943.06	1.79	1.28	1.25
8,654.00	91.19	219.79	6,508.88	-1,974.33	-1,432.83	1,966.54	4.12	0.48	-4.10
8,686.00	90.56	219.66	6,508.39	-1,998.94	-1,453.28	1,991.04	2.01	-1.97	-0.41

Company:	QUESTAR EXPLORATION AND PRODUCTION	Local Co-ordinate Reference:	Well BRENNAN #6
Project:	UINTAH COUNTY, UTAH	TVD Reference:	WELL @ 4692.40ft (Original Well Elev)
Site:	BRENNAN #6	MD Reference:	WELL @ 4692.40ft (Original Well Elev)
Well:	BRENNAN #6	North Reference:	True
Wellbore:	BRENNAN #6	Survey Calculation Method:	Minimum Curvature
Design:	BRENNAN #6	Database:	EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,717.00	89.00	217.91	6,508.51	-2,023.10	-1,472.70	2,015.10	7.56	-5.03	-5.65
8,749.00	91.13	219.41	6,508.48	-2,048.09	-1,492.69	2,039.97	8.14	6.66	4.69
8,780.00	91.94	219.41	6,507.65	-2,072.03	-1,512.36	2,063.81	2.61	2.61	0.00
8,812.00	90.06	217.04	6,507.09	-2,097.16	-1,532.16	2,088.83	9.45	-5.88	-7.41
8,844.00	90.19	216.66	6,507.02	-2,122.77	-1,551.35	2,114.34	1.26	0.41	-1.19
8,875.00	90.09	216.48	6,506.94	-2,147.66	-1,569.82	2,139.13	0.66	-0.32	-0.58
8,907.00	91.38	215.16	6,506.53	-2,173.61	-1,588.54	2,164.97	5.77	4.03	-4.13
8,938.00	90.75	214.29	6,505.96	-2,199.08	-1,606.20	2,190.35	3.46	-2.03	-2.81
8,969.00	91.13	213.66	6,505.45	-2,224.79	-1,623.52	2,215.96	2.37	1.23	-2.03
9,001.00	91.44	212.41	6,504.73	-2,251.60	-1,640.96	2,242.69	4.02	0.97	-3.91
9,033.00	90.23	211.37	6,504.26	-2,278.77	-1,657.86	2,269.76	4.99	-3.78	-3.25
9,064.00	92.31	212.29	6,503.58	-2,305.10	-1,674.21	2,296.00	7.34	6.71	2.97
9,096.00	90.81	210.64	6,502.70	-2,332.38	-1,690.90	2,323.19	6.97	-4.69	-5.16
9,127.00	91.47	211.21	6,502.09	-2,358.97	-1,706.83	2,349.70	2.81	2.13	1.84
9,159.00	90.31	211.41	6,501.59	-2,386.31	-1,723.46	2,376.94	3.68	-3.63	0.63
9,190.00	91.31	212.66	6,501.15	-2,412.58	-1,739.90	2,403.13	5.16	3.23	4.03
9,222.00	90.75	211.78	6,500.58	-2,439.65	-1,756.96	2,430.10	3.26	-1.75	-2.75
9,254.00	91.37	211.90	6,499.99	-2,466.83	-1,773.84	2,457.19	1.97	1.94	0.38
9,285.00	91.38	212.91	6,499.24	-2,493.00	-1,790.44	2,483.26	3.26	0.03	3.26
9,315.00	90.69	212.54	6,498.70	-2,518.23	-1,806.66	2,508.41	2.61	-2.30	-1.23
9,345.00	90.94	212.04	6,498.27	-2,543.59	-1,822.68	2,533.68	1.86	0.83	-1.67
9,380.00	91.44	211.29	6,497.55	-2,573.37	-1,841.05	2,563.36	2.58	1.43	-2.14
9,409.00	91.25	210.54	6,496.87	-2,598.24	-1,855.95	2,588.16	2.67	-0.66	-2.59
9,443.00	92.19	208.66	6,495.84	-2,627.79	-1,872.73	2,617.61	6.18	2.76	-5.53
9,475.00	92.13	207.79	6,494.64	-2,655.97	-1,887.86	2,645.71	2.72	-0.19	-2.72
9,506.00	91.94	207.61	6,493.54	-2,683.40	-1,902.26	2,673.06	0.84	-0.61	-0.58
9,538.00	91.44	207.04	6,492.59	-2,711.81	-1,916.94	2,701.39	2.37	-1.56	-1.78
9,570.00	92.13	207.54	6,491.60	-2,740.24	-1,931.60	2,729.74	2.66	2.16	1.56
9,602.00	93.13	207.91	6,490.13	-2,768.53	-1,946.48	2,757.95	3.33	3.13	1.16
9,633.00	92.88	207.79	6,488.50	-2,795.90	-1,960.94	2,785.25	0.89	-0.81	-0.39
9,664.00	90.95	206.74	6,487.47	-2,823.44	-1,975.13	2,812.71	7.09	-6.23	-3.39
9,696.00	90.63	206.04	6,487.03	-2,852.11	-1,989.35	2,841.29	2.41	-1.00	-2.19
9,727.00	91.44	207.16	6,486.47	-2,879.82	-2,003.23	2,868.93	4.46	2.61	3.61
9,759.00	91.13	206.54	6,485.75	-2,908.36	-2,017.68	2,897.39	2.17	-0.97	-1.94
9,791.00	90.75	205.91	6,485.22	-2,937.06	-2,031.82	2,926.02	2.30	-1.19	-1.97
9,822.00	92.75	205.91	6,484.28	-2,964.93	-2,045.36	2,953.82	6.45	6.45	0.00
9,854.00	91.13	205.41	6,483.19	-2,993.76	-2,059.21	2,982.57	5.30	-5.06	-1.56
9,885.00	90.00	202.40	6,482.89	-3,022.10	-2,071.76	3,010.83	10.37	-3.65	-9.71
9,917.00	91.50	202.91	6,482.47	-3,051.62	-2,084.09	3,040.29	4.95	4.69	1.59
9,948.00	90.88	202.48	6,481.83	-3,080.22	-2,096.05	3,068.82	2.43	-2.00	-1.39
PBHL BRENNAN #6									
9,956.00	91.10	202.59	6,481.69	-3,087.61	-2,099.11	3,076.20	3.03	2.72	1.34
9,980.00	91.75	202.91	6,481.09	-3,109.73	-2,108.39	3,098.27	3.03	2.72	1.34
10,011.00	91.75	204.41	6,480.14	-3,138.11	-2,120.82	3,126.58	4.84	0.00	4.84
10,043.00	90.88	204.41	6,479.41	-3,167.24	-2,134.05	3,155.64	2.72	-2.72	0.00
10,075.00	91.38	204.41	6,478.78	-3,196.38	-2,147.27	3,184.70	1.56	1.56	0.00
10,106.00	92.00	204.91	6,477.87	-3,224.54	-2,160.20	3,212.79	2.57	2.00	1.61
10,138.00	91.63	204.91	6,476.85	-3,253.55	-2,173.67	3,241.73	1.16	-1.16	0.00
10,169.00	91.63	205.41	6,475.97	-3,281.59	-2,186.84	3,269.70	1.61	0.00	1.61
LAST SVY									
10,213.00	91.62	204.91	6,474.72	-3,321.40	-2,205.54	3,309.41	1.14	-0.02	-1.14
PROJ SVY									
10,255.00	91.62	204.91	6,473.53	-3,359.48	-2,223.22	3,347.39	0.00	0.00	0.00



Weatherford International Ltd.

Survey Report



Company: QUESTAR EXPLORATION AND PRODUCTION
Project: UINTAH COUNTY, UTAH
Site: BRENNAN #6
Well: BRENNAN #6
Wellbore: BRENNAN #6
Design: BRENNAN #6

Local Co-ordinate Reference: Well BRENNAN #6
TVD Reference: WELL @ 4692.40ft (Original Well Elev)
MD Reference: WELL @ 4692.40ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

Wellbore Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
PBHL BRENNAN #6	0.00	0.00	6,496.12	-3,039.18	-2,215.77	7,244,713.24	2,167,385.78	40° 11' 36.083 N	109° 36' 48.375 W
- survey misses target center by 127.13ft at 9955.73ft MD (6481.69 TVD, -3087.36 N, -2099.01 E)									
- Point									

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
6,711.00	6,525.73	-470.90	-210.93	START ST
10,213.00	6,474.72	-3,321.40	-2,205.54	LAST SVY
10,255.00	6,473.53	-3,359.48	-2,223.22	PROJ SVY

Checked By: _____ Approved By: _____ Date: _____

Questar E & P
Deviation Summary

CONFIDENTIAL

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Well Name: BRENNAN 6						Location: 19- 7-S 21-E 26				S/T #	V.S. AZI (°)
TMD: 10,213.0 (ft)						Spud Date: 7/8/1971				OH	218.00
Closure Distance: 3,986.9 (ft)						Calculation Method: Minimum Curvature				01	216.09
TVD	Angle	Azimuth	CTM	N/S	E/W	Vert. Section	DLS	BUR	Type		
(ft)	(°)	(°)		(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)			
01	6,100.0	2.25	157.46	NYN	6,096.58	-176.20	0.95	141.81	0.00	0.00	GYR
01	6,176.0	9.40	213.90	YNN	6,172.17	-182.74	-1.94	148.82	11.01	9.41	MWD
01	6,208.0	15.19	213.79	YNN	6,203.43	-188.40	-5.74	155.62	18.09	18.09	MWD
01	6,239.0	21.17	217.55	YNN	6,232.87	-196.22	-11.41	165.29	19.65	19.29	MWD
01	6,271.0	24.57	222.06	YNN	6,262.35	-205.74	-19.39	177.68	11.95	10.63	MWD
01	6,303.0	27.03	220.61	YNN	6,291.16	-216.20	-28.59	191.55	7.94	7.69	MWD
01	6,335.0	29.65	219.38	YNN	6,319.32	-227.84	-38.34	206.71	8.39	8.19	MWD
01	6,367.0	33.84	216.10	YNN	6,346.53	-241.17	-48.62	223.53	14.16	13.09	MWD
01	6,398.0	38.81	213.91	YNN	6,371.50	-256.22	-59.13	241.88	16.57	16.03	MWD
01	6,429.0	42.35	214.19	YNN	6,395.04	-272.92	-70.42	262.03	11.43	11.42	MWD
01	6,461.0	45.19	213.91	YNN	6,418.14	-291.26	-82.81	284.15	8.90	8.88	MWD
01	6,490.0	47.69	214.54	YNN	6,438.13	-308.63	-94.63	305.15	8.76	8.62	MWD
01	6,521.0	53.81	214.66	YNN	6,457.73	-328.38	-108.26	329.14	19.74	19.74	MWD
01	6,553.0	60.69	214.29	YNN	6,475.03	-350.56	-123.48	356.02	21.52	21.50	MWD
01	6,585.0	64.72	216.10	YNN	6,489.71	-373.79	-139.88	384.45	13.56	12.59	MWD
01	6,616.0	69.44	215.79	YNN	6,501.77	-396.90	-156.63	412.99	15.25	15.23	MWD
01	6,648.0	74.00	216.41	YNN	6,511.81	-421.44	-174.53	443.37	14.37	14.25	MWD
01	6,679.0	77.31	216.04	YNN	6,519.49	-445.66	-192.28	473.40	10.74	10.68	MWD
01	6,711.0	80.25	216.89	YNN	6,525.71	-470.90	-210.93	504.78	9.55	9.19	MWD
01	6,742.0	84.69	217.41	YNN	6,529.78	-495.39	-229.48	535.50	14.42	14.32	MWD
01	6,774.0	88.25	217.66	YNN	6,531.75	-520.72	-248.94	567.43	11.15	11.13	MWD
01	6,806.0	91.06	218.29	YNN	6,531.94	-545.94	-268.63	599.41	9.00	8.78	MWD
01	6,837.0	90.50	218.91	YNN	6,531.52	-570.16	-287.97	630.37	2.69	-1.81	MWD
01	6,866.0	87.81	218.91	YNN	6,531.94	-592.72	-306.18	659.33	9.28	-9.28	MWD
01	6,896.0	84.36	218.34	YNN	6,533.99	-616.10	-324.86	689.23	11.66	-11.50	MWD
02	6,711.0	80.25	216.89	NYN	6,525.71	-470.92	-210.84	504.75	0.00	0.00	MWD
02	6,744.0	82.79	213.60	YNN	6,530.58	-497.57	-229.67	533.49	12.51	7.70	MWD
02	6,775.0	84.49	213.51	YNN	6,534.01	-523.25	-246.70	564.21	5.49	5.48	MWD
02	6,807.0	90.69	212.54	YNN	6,535.36	-550.04	-264.11	596.04	19.61	19.38	MWD
02	6,838.0	93.19	211.86	YNN	6,534.31	-576.25	-280.62	626.86	8.36	8.06	MWD
02	6,870.0	90.69	212.41	YNN	6,533.22	-603.33	-297.63	658.67	8.00	-7.81	MWD
02	6,900.0	91.13	212.54	YNN	6,532.75	-628.64	-313.74	688.53	1.53	1.47	MWD
02	6,932.0	91.71	211.57	YNN	6,531.95	-655.75	-330.72	720.35	3.53	1.81	MWD

CONFIDENTIAL

Questar E & P

Deviation Summary

Well Name: BRENNAN 6										S/T #	V.S. AZI (°)
TMD: 10,213.0 (ft)										OH	218.00
TVD: 6,474.17 (ft)										01	216.09
Closure Distance: 3,986.9 (ft)										Calculation Method: Minimum Curvature	
Closure Direction: 213.60 (°)											
S/T #	TMD (ft)	Angle (°)	Azimuth (°)	CTM	TVD (ft)	N/-S (ft)	E/-W (ft)	Vert. Section (ft)	DLS (°/100ft)	BUR (°/100ft)	Type
02	6,963.0	90.69	211.91	YNN	6,531.30	-682.11	-347.02	751.16	3.47	-3.29	MWD
02	6,995.0	89.06	213.04	YNN	6,531.37	-709.10	-364.20	783.01	6.20	-5.09	MWD
02	7,027.0	89.00	213.54	YNN	6,531.92	-735.85	-381.76	814.89	1.57	-0.19	MWD
02	7,058.0	89.13	213.54	YNN	6,532.42	-761.68	-398.89	845.79	0.42	0.42	MWD
02	7,090.0	91.90	214.63	YNN	6,532.13	-788.18	-416.82	877.72	9.30	8.66	MWD
02	7,121.0	93.44	214.79	YNN	6,530.69	-813.64	-434.45	908.63	4.99	4.97	MWD
02	7,143.0	93.44	214.80	YNN	6,529.37	-831.67	-446.98	930.56	0.05	0.00	MWD
02	7,174.0	92.39	214.57	YNN	6,527.79	-857.13	-464.60	961.46	3.47	-3.39	MWD
02	7,206.0	91.13	216.04	YNN	6,526.81	-883.23	-483.08	993.41	6.05	-3.94	MWD
02	7,238.0	90.75	215.91	YNN	6,526.29	-909.12	-501.88	1,025.39	1.26	-1.19	MWD
02	7,269.0	89.25	217.66	YNN	6,526.29	-933.95	-520.44	1,056.38	7.43	-4.84	MWD
02	7,301.0	88.69	217.66	YNN	6,526.86	-959.28	-539.99	1,088.37	1.75	-1.75	MWD
02	7,332.0	89.38	218.16	YNN	6,527.38	-983.73	-559.03	1,119.37	2.75	2.23	MWD
02	7,364.0	90.88	217.91	YNN	6,527.31	-1,008.94	-578.75	1,151.37	4.75	4.69	MWD
02	7,395.0	91.25	218.41	YNN	6,526.73	-1,033.31	-597.90	1,182.36	2.01	1.19	MWD
02	7,427.0	90.63	218.79	YNN	6,526.21	-1,058.31	-617.86	1,214.35	2.27	-1.94	MWD
02	7,458.0	91.13	220.66	YNN	6,525.73	-1,082.15	-637.67	1,245.34	6.24	1.61	MWD
02	7,490.0	91.56	220.16	YNN	6,524.98	-1,106.51	-658.41	1,277.30	2.06	1.34	MWD
02	7,522.0	91.54	220.47	YNN	6,524.12	-1,130.90	-679.10	1,309.26	0.97	-0.06	MWD
02	7,553.0	91.50	220.16	YNN	6,523.29	-1,154.53	-699.15	1,340.22	1.01	-0.13	MWD
02	7,585.0	91.69	220.29	YNN	6,522.40	-1,178.95	-719.81	1,372.19	0.72	0.59	MWD
02	7,616.0	90.63	221.54	YNN	6,521.78	-1,202.37	-740.11	1,403.14	5.29	-3.42	MWD
02	7,648.0	90.94	220.91	YNN	6,521.34	-1,226.44	-761.20	1,435.09	2.19	0.97	MWD
02	7,680.0	90.75	222.41	YNN	6,520.87	-1,250.34	-782.46	1,467.02	4.72	-0.59	MWD
02	7,711.0	91.30	223.51	YNN	6,520.31	-1,273.02	-803.59	1,497.89	3.97	1.77	MWD
02	7,743.0	91.19	223.79	YNN	6,519.62	-1,296.17	-825.67	1,529.73	0.94	-0.34	MWD
02	7,774.0	90.44	224.41	YNN	6,519.18	-1,318.43	-847.24	1,560.55	3.14	-2.42	MWD
02	7,806.0	87.94	224.16	YNN	6,519.63	-1,341.34	-869.58	1,592.35	7.85	-7.81	MWD
02	7,837.0	88.88	223.66	YNN	6,520.49	-1,363.66	-891.07	1,623.18	3.43	3.03	MWD
02	7,869.0	89.50	223.79	YNN	6,520.94	-1,386.78	-913.19	1,655.01	1.98	1.94	MWD
02	7,901.0	90.75	223.29	YNN	6,520.87	-1,409.98	-935.23	1,686.86	4.21	3.91	MWD
02	7,932.0	92.06	221.79	YNN	6,520.11	-1,432.81	-956.18	1,717.76	6.42	4.23	MWD
02	7,964.0	89.59	222.61	YNN	6,519.65	-1,456.51	-977.67	1,749.66	8.13	-7.72	MWD

Questar E & P
Deviation Summary

CONFIDENTIAL

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Well Name: BRENNAN 6					Location: 19- 7-S 21-E 26					S/T #	V.S. AZI (°)	
TMD: 10,213.0 (ft)					TVD: 6,474.17 (ft)					OH		218.00
Closure Distance: 3,986.9 (ft)					Closure Direction: 213.60 (°)					01		216.09
					Spud Date: 7/8/1971							
					Calculation Method: Minimum Curvature							
S/T #	TMD (ft)	Angle (°)	Azimuth (°)	CTM	TVD (ft)	N-S (ft)	E-W (ft)	Vert. Section (ft)	DLS (°/100ft)	BUR (°/100ft)	Type	
02	7,995.0	88.25	224.04	YNN	6,520.23	-1,479.06	-998.94	1,780.52	6.32	-4.32	MWD	
02	8,027.0	88.06	223.66	YNN	6,521.26	-1,502.13	-1,021.09	1,812.34	1.33	-0.59	MWD	
02	8,058.0	89.56	222.91	YNN	6,521.91	-1,524.69	-1,042.34	1,843.20	5.41	4.84	MWD	
02	8,090.0	90.00	223.91	YNN	6,522.03	-1,547.93	-1,064.33	1,875.06	3.41	1.38	MWD	
02	8,122.0	92.38	224.66	YNN	6,521.37	-1,570.83	-1,086.67	1,906.86	7.80	7.44	MWD	
02	8,153.0	91.38	223.16	YNN	6,520.35	-1,593.15	-1,108.16	1,937.67	5.81	-3.23	MWD	
02	8,185.0	90.31	222.61	YNN	6,519.88	-1,616.60	-1,129.93	1,969.55	3.76	-3.34	MWD	
02	8,216.0	91.25	221.66	YNN	6,519.46	-1,639.58	-1,150.73	2,000.47	4.31	3.03	MWD	
02	8,246.0	90.25	220.79	YNN	6,519.06	-1,662.15	-1,170.49	2,030.42	4.42	-3.33	MWD	
02	8,279.0	91.44	220.66	YNN	6,518.58	-1,687.15	-1,192.02	2,063.38	3.63	3.61	MWD	
02	8,311.0	90.81	219.91	YNN	6,517.95	-1,711.56	-1,212.71	2,095.34	3.06	-1.97	MWD	
02	8,343.0	92.19	219.79	YNN	6,517.11	-1,736.12	-1,233.21	2,127.32	4.33	4.31	MWD	
02	8,374.0	95.31	220.16	YNN	6,515.08	-1,759.82	-1,253.08	2,158.23	10.13	10.06	MWD	
02	8,403.0	93.69	219.79	YNN	6,512.81	-1,781.97	-1,271.65	2,187.12	5.73	-5.59	MWD	
02	8,437.0	90.24	217.52	YNN	6,511.64	-1,808.50	-1,292.87	2,221.09	12.14	-10.15	MWD	
02	8,465.0	91.06	220.54	YNN	6,511.32	-1,830.25	-1,310.50	2,249.08	11.18	2.93	MWD	
02	8,496.0	92.13	220.91	YNN	6,510.46	-1,853.73	-1,330.72	2,280.03	3.65	3.45	MWD	
02	8,528.0	90.50	220.66	YNN	6,509.73	-1,877.96	-1,351.61	2,311.99	5.15	-5.09	MWD	
02	8,559.0	89.06	219.41	YNN	6,509.85	-1,901.69	-1,371.55	2,342.96	6.15	-4.65	MWD	
02	8,591.0	90.63	220.66	YNN	6,509.93	-1,926.19	-1,392.14	2,374.94	6.27	4.91	MWD	
02	8,623.0	91.04	221.06	YNN	6,509.47	-1,950.39	-1,413.07	2,406.90	1.79	1.28	MWD	
02	8,654.0	91.19	219.79	YNN	6,508.86	-1,973.98	-1,433.17	2,437.86	4.12	0.48	MWD	
02	8,686.0	90.56	219.66	YNN	6,508.37	-1,998.59	-1,453.61	2,469.85	2.01	-1.97	MWD	
02	8,717.0	89.00	217.91	YNN	6,508.49	-2,022.75	-1,473.03	2,500.84	7.56	-5.03	MWD	
02	8,749.0	91.13	219.41	YNN	6,508.46	-2,047.74	-1,493.02	2,532.84	8.14	6.66	MWD	
02	8,780.0	91.94	219.41	YNN	6,507.63	-2,071.68	-1,512.69	2,563.81	2.61	2.61	MWD	
02	8,812.0	90.06	217.04	YNN	6,507.07	-2,096.81	-1,532.49	2,595.81	9.45	-5.88	MWD	
02	8,844.0	90.19	216.66	YNN	6,507.00	-2,122.42	-1,551.68	2,627.80	1.26	0.41	MWD	
02	8,875.0	90.09	216.48	YNN	6,506.92	-2,147.32	-1,570.15	2,658.79	0.66	-0.32	MWD	
02	8,907.0	91.38	215.16	YNN	6,506.51	-2,173.26	-1,588.87	2,690.76	5.77	4.03	MWD	
02	8,938.0	90.75	214.29	YNN	6,505.94	-2,198.74	-1,606.53	2,721.71	3.46	-2.03	MWD	
02	8,969.0	91.13	213.66	YNN	6,505.43	-2,224.44	-1,623.85	2,752.63	2.37	1.23	MWD	
02	9,001.0	91.44	212.41	YNN	6,504.71	-2,251.26	-1,641.29	2,784.50	4.02	0.97	MWD	

Deviation Summary

Well Name: BRENNAN 6 TMD: 10,213.0 (ft) Closure Distance: 3,986.9 (ft)										Location: 19- 7-S 21-E 26 Spud Date: 7/8/1971 Calculation Method: Minimum Curvature		S/T #	V.S. AZI (°)
TVD: 6,474.17 (ft) Closure Direction: 213.60 (°)												OH	218.00
												01	216.09
S/T #	TMD (ft)	Angle (°)	Azimuth (°)	CTM	TVD (ft)	N-S (ft)	E-W (ft)	Vert. Section (ft)	DLS (°/100ft)	BUR (°/100ft)	Type		
02	9,033.0	90.23	211.37	YNN	6,504.24	-2,278.43	-1,658.19	2,816.31	4.99	-3.78	MWD		
02	9,064.0	92.31	212.69	YNN	6,503.56	-2,304.70	-1,674.63	2,847.13	7.95	6.71	MWD		
02	9,096.0	90.81	210.64	YNN	6,502.68	-2,331.92	-1,691.42	2,878.92	7.94	-4.69	MWD		
02	9,127.0	91.47	211.21	YNN	6,502.07	-2,358.51	-1,707.35	2,909.68	2.81	2.13	MWD		
02	9,159.0	90.31	211.41	YNN	6,501.57	-2,385.85	-1,723.98	2,941.46	3.68	-3.63	MWD		
02	9,190.0	91.31	212.66	YNN	6,501.13	-2,412.12	-1,740.42	2,972.29	5.16	3.23	MWD		
02	9,222.0	90.75	211.79	YNN	6,500.56	-2,439.19	-1,757.48	3,004.12	3.23	-1.75	MWD		
02	9,254.0	91.37	211.90	YNN	6,499.97	-2,466.37	-1,774.36	3,035.93	1.97	1.94	MWD		
02	9,285.0	91.38	212.91	YNN	6,499.22	-2,492.53	-1,790.97	3,066.77	3.26	0.03	MWD		
02	9,317.0	90.69	212.54	YNN	6,498.64	-2,519.45	-1,808.26	3,098.63	2.45	-2.16	MWD		
02	9,348.0	90.94	212.04	YNN	6,498.20	-2,545.65	-1,824.82	3,129.47	1.80	0.81	MWD		
02	9,380.0	91.44	211.29	YNN	6,497.54	-2,572.88	-1,841.62	3,161.27	2.82	1.56	MWD		
02	9,411.0	91.25	210.54	YNN	6,496.81	-2,599.47	-1,857.54	3,192.02	2.50	-0.61	MWD		
02	9,443.0	92.19	208.66	YNN	6,495.85	-2,627.28	-1,873.34	3,223.67	6.57	2.94	MWD		
02	9,475.0	92.13	207.79	YNN	6,494.64	-2,655.45	-1,888.46	3,255.18	2.72	-0.19	MWD		
02	9,506.0	91.94	207.61	YNN	6,493.54	-2,682.88	-1,902.86	3,285.66	0.84	-0.61	MWD		
02	9,538.0	91.44	207.04	YNN	6,492.60	-2,711.30	-1,917.54	3,317.09	2.37	-1.56	MWD		
02	9,570.0	93.13	207.91	YNN	6,491.32	-2,739.67	-1,932.30	3,348.53	5.94	5.28	MWD		
02	9,602.0	93.13	207.91	YNN	6,489.58	-2,767.90	-1,947.25	3,379.98	0.00	0.00	MWD		
02	9,633.0	92.88	207.79	YNN	6,487.95	-2,795.27	-1,961.71	3,410.46	0.89	-0.81	MWD		
02	9,664.0	90.95	206.74	YNN	6,486.91	-2,822.81	-1,975.91	3,440.90	7.09	-6.23	MWD		
02	9,696.0	90.63	206.04	YNN	6,486.47	-2,851.48	-1,990.13	3,472.24	2.41	-1.00	MWD		
02	9,727.0	91.44	207.16	YNN	6,485.91	-2,879.19	-2,004.01	3,502.62	4.46	2.61	MWD		
02	9,759.0	91.13	206.54	YNN	6,485.20	-2,907.73	-2,018.46	3,534.01	2.17	-0.97	MWD		
02	9,791.0	90.75	205.91	YNN	6,484.67	-2,936.43	-2,032.59	3,565.33	2.30	-1.19	MWD		
OH	9,822.0	92.75	205.91	YNN	6,483.72	-2,964.30	-2,046.13	3,595.63	6.45	6.45	MWD		
OH	9,854.0	91.13	205.41	YNN	6,482.64	-2,993.13	-2,059.98	3,626.87	5.30	-5.06	MWD		
OH	9,885.0	90.00	202.40	YNN	6,482.34	-3,021.47	-2,072.54	3,656.93	10.37	-3.65	MWD		
OH	9,917.0	91.50	202.91	YNN	6,481.92	-3,050.99	-2,084.86	3,687.79	4.95	4.69	MWD		
OH	9,948.0	90.88	202.48	YNN	6,481.27	-3,079.59	-2,096.82	3,717.68	2.43	-2.00	MWD		
OH	9,980.0	91.75	202.91	YNN	6,480.54	-3,109.10	-2,109.17	3,748.54	3.03	2.72	MWD		
OH	10,011.0	91.75	204.41	YNN	6,479.59	-3,137.48	-2,121.60	3,778.56	4.84	0.00	MWD		
OH	10,043.0	90.88	204.41	YNN	6,478.86	-3,166.61	-2,134.82	3,809.65	2.72	-2.72	MWD		

Deviation Summary

Well Name: BRENNAN 6

TMD: 10,213.0 (ft)

TVD: 6,474.17 (ft)

Closure Distance: 3,986.9 (ft)

Closure Direction: 213.60 (°)

Location: 19- 7-S 21-E 26

Spud Date: 7/8/1971

Calculation Method: Minimum Curvature

S/T #

V.S. AZI (°)

OH

218.00

01

216.09

S/T #	TMD (ft)	Angle (°)	Azimuth (°)	CTM	TVD (ft)	N/-S (ft)	E/-W (ft)	Vert. Section (ft)	DLS (°/100ft)	BUR (°/100ft)	Type
OH	10,075.0	91.38	204.41	YNN	6,478.23	-3,195.75	-2,148.04	3,840.75	1.56	1.56	MWD
OH	10,106.0	92.00	204.91	YNN	6,477.31	-3,223.91	-2,160.97	3,870.90	2.57	2.00	MWD
OH	10,138.0	91.63	204.91	YNN	6,476.30	-3,252.92	-2,174.44	3,902.05	1.16	-1.16	MWD
OH	10,169.0	91.63	205.41	YNN	6,475.42	-3,280.96	-2,187.62	3,932.27	1.61	0.00	MWD
OH	10,213.0	91.62	204.91	YNN	6,474.17	-3,320.77	-2,206.32	3,975.15	1.14	-0.02	MWD

CONFIDENTIAL

Operations Summary Report - **DEILLING**

Well Name: BRENNAN 6
 Location: 19- 7-S 21-E 26
 Rig Name: BASIN WELL SEREVICE

Spud Date: 7/8/1971
 Rig Release: 10/22/2009
 Rig Number: 3

Date	From - To	Hours	Code	Sub Code	Description of Operations
12/2/2008	06:00 - 16:00	10.00	HOT	1	Drilling Prep On 12-2-2008 7:00 AM MIRU hotiller pumped 100 bbls chemical water down casing, unseat pump, flush tubing with 50 bbls chemical water. POOH with rods. SDFN 5:00 PM. 24 Hour Forecast: Finish POOH with rods and pump, POOH with tubing run, casing scraper. Casing size: 5 1/2" 17# K-55 Casing Depth: 7300'
12/3/2008	06:00 - 16:00	10.00	BOP	1	Drilling Prep On 12-3-2008 7:00 AM Finish POOH and lay down rods and pump. ND WH, NU BOPs, release TAC, change over to tubing equipment. POOH with tubing, TAC and mud anchor. SDFN 5:00 PM. 24 Hour Forecast: Run casing scraper. Casing size: 5 1/2" 17# K-55 Casing Depth: 7300'
9/11/2009	06:00 - 18:00	12.00	LOC	3	LOAD OUT RIG AND MOBILIZE FROM FARMINGTON NW TO BRENNAN 6 LOCATION, RECIEVED 5 LOADS, PINNED DERRICK TO CARRIER, RECIEVED 2 7/8 DRILL STRING / 285 JOINTS OF 2 7/8 AOH DP AND 75 JOINTS OF SLH-90 HWDP
	18:00 - 06:00 18:00 -	12.00	OTH		WAIT ON DAYLIGHT
9/12/2009	06:00 - 18:00	12.00	LOC	4	NOTIFIED DUSTIN DOUCET WITH UT STATE VERBALLY AND UT BLM VIA E-MAIL OF BOP TEST ON SATURDAY 9-12-2009 AT 13:00 HRS RIG UP SUB, RAMP, AND BACK CARRIER ON. SET WATER TANK AND DOG HOUSE. RAISE DERRICK, RIG UP FLOOR AND START HANGING TOP DRIVE. HAD TO SHUT TRCKS DOWN ON RIG UP DUE TO MUD TANK BEING HELD UP AT COLO. PORT FOR 8 HRS.
	18:00 - 06:00	12.00	OTH		WAIT ON DAYLIGHT
9/13/2009	06:00 - 12:00	6.00	LOC	4	FINISHED SETTING RIG IN PLACE, FINISH GENERAL RIG UP AND READY TOPDRIVE
	12:00 - 22:00	10.00	BOP	1	NIPPLE UP BOPE
	22:00 - 06:00	8.00	BOP	2	TEST BOP, CASING TO 300 PSI, 2 FLOOR VALVES, DART VALVE, TOP DRIVE BALL VALVE, BLIND AND PIPE RAMS AN CHOKE MANIFLOD 3000 PSI HIGH, 250 LOW. ANNNULAR 1500 HIGH, 250 LOW- FUNTION TEST ACCULATOR. DONNA KENNY FOR BLM WITNESSED BOP TEST
9/14/2009	06:00 - 07:00	1.00	BOP	2	TEST BOP
	07:00 - 07:30	0.50	RIG	1	RIG SERVICE
	07:30 - 08:30	1.00	OTH		SET WEAR BUSHING
	08:30 - 11:30	3.00	TRP	1	STRAP AND PICK UPBIT #, CASING SCRAPER, BIT SUB AND BHA
	11:30 - 14:00	2.50	RIG	2	REPAIR BROKEN HYDRAULIC HOSE ON CARRIER.
	14:00 - 15:00	1.00	OTH		HOLD SAFETY MEETING AND RIG UP WEATHERFORD LAY DOWN TRUCK
	15:00 - 20:00	5.00	TRP	1	CONTINUE TO P/U BHA AND DRILL PIPE TO 3600'
	20:00 - 20:30	0.50	RIG	1	RIG SERVICE
	20:30 - 23:00	2.50	TRP	1	P/U DRILL PIPE FROM 3600' TO 6108'
	23:00 - 23:30	0.50	REAM	1	WASH 78' FROM 6108' TO 6155', TAG CIBP AT 6155'
	23:30 - 00:00	0.50	OTH		RIG DOWN LAY DOWN TRUCK
	00:00 - 02:30	2.50	CIRC	1	RIG UP HOT OILER AND CIRCULATE HOT WATER AT 275 DEGREES TO CLEAN OUT CASING, R/D HOT OILER, CIRCULATE TO COOL FLUID FOR TRIP
	02:30 - 03:00	0.50	TRP	1	TRIP OUT OF THE HOLE TO PICK UP WHIPSTOCK
	03:00 - 04:00	1.00	RIG	1	WORK ON TOPDRIVE SERVICE LOOP

CONFIDENTIAL

Operations Summary Report

Well Name: BRENNAN 6
 Location: 19- 7-S 21-E 26
 Rig Name: BASIN WELL SEREVICE

Spud Date: 7/8/1971
 Rig Release: 10/22/2009
 Rig Number: 3

Date	From - To	Hours	Code	Sub Code	Description of Operations
9/14/2009	04:00 - 06:00	2.00	TRP	1	TRIP OUT OF THE HOLE TO PICK UP WHIPSTOCK
9/15/2009	06:00 - 08:00	2.00	TRP	2	TRIP OUT OF HOLE FOR WHIPSTOCK
	08:00 - 08:30	0.50	RIG	1	RIG SERVICE
	08:30 - 09:30	1.00	TRP	1	PICK UP WHIPSTOCK AND ORIENT TOOLS
	09:30 - 13:00	3.50	TRP	2	TRIP IN HOLE WITH WHIPSTOCK
	13:00 - 14:00	1.00	LOG	4	HOLD SAFETY MEETING, RIG UP WIRELINE TRUCK AND GYRO TOOL.
	14:00 - 14:30	0.50	LOG	4	SEAT GYRO TOOL, ORIENT AND SET WHIPSTOCK @ 217.73 GTF, 6143.46' TO TOP OF WHIPSTOCK
	14:30 - 16:00	1.50	LOG	4	PULL GYRO TOOL, RIG DOWN WIRELINE TRUCK AND SHEAR FORM WHIPSTOCK
	16:00 - 21:00	5.00	DRL	7	MILLING WINDOW F/6143 T/6153, 4' OF RAT HOLE
	21:00 - 22:00	1.00	CIRC	1	PUMP HI-VIS SWEEP
	22:00 - 01:30	3.50	TRP	10	PUMP SLUG AND T.O.O.H. FOR DIRECTIONAL TOOLS TO 777'
	01:30 - 05:00	3.50	RIG	2	REPAIR TOP DRIVE ELEVATOR LINK
	05:00 - 06:00	1.00	TRP	10	TRIP OUT OF HOLE FOR DIRECTIONAL TOOLS
9/16/2009	06:00 - 07:00	1.00	TRP	1	LAY DOWN MILLS
	07:00 - 08:00	1.00	RIG	1	RIG SERVICE
	08:00 - 10:30	2.50	RIG	1	WORK ON TOP DRIVE LINK TILT
	10:30 - 12:30	2.00	TRP	1	P/U DIRECTIONAL TOOLS AND ORIENT
	12:30 - 16:00	3.50	TRP	1	TRIP IN THE HOLE AND TAG AT 6153'
	16:00 - 20:30	4.50	TRP	1	MAKE UP SIDE ENTRY SUB, RIG UP WIRELINE TRUCK AND GYRO, RUN IN THE HOLE AND ORIENT GYRO TOOL
	20:30 - 23:00	2.50	DRL	2	DIRECTIONAL DRILL FROM 6153' TO 6181' 28 FT
					ROP 11.2'/HR GPM 100 100% SLIDE
	23:00 - 00:30	1.50	OTH		POOH WITH GYRO TOOL, MAKE CONNECTION, RUN GYRO BACK IN THE HOLE AND RE-ORIENT
	00:30 - 03:30	3.00	DRL	2	DIRECTIONAL DRILL FROM 6181' TO 6213 32 FT
					ROP 10.6'/HR GPM 100 100% SLIDE
	03:30 - 05:00	1.50	OTH		POOH WITH GYRO TOOL, MAKE CONNECTION, RUN GYRO BACK IN THE HOLE AND RE-ORIENT
	05:00 - 06:00	1.00	DRL	3	DIRECTIONAL DRILL FROM 6213' TO 6224' 11' 11'/HR
					SAME PARAMETERS
9/17/2009	06:00 - 08:00	2.00	DRL	2	DIRECTIONAL DRILL F/6224 T/6244
	08:00 - 09:00	1.00	OTH		PULL GYRO OUT OF HOLE, LAY DOWN SIDE ENTRY SUB
	09:00 - 12:00	3.00	DRL	2	DIRECTIONAL DRILL F/6244 T/6307 63'
					ROP 21 FT/HR WOB 14
	12:00 - 12:30	0.50	RIG	1	LUBRICATE RIG
	12:30 - 02:30	14.00	DRL	2	DIRECTIONAL DRILL F/6307' T/6498' 191'
					ROP 13.6 FT/HR WOB 16
					NEW TARGET TVD CHANGED TO 6538 AS OF 15:00 HRS AS PER ON SITE GEOLOGIST/DENVER
	02:30 - 06:00	3.50	TRP	10	PUMP SLUG AND T.O.O.H.
9/18/2009	06:00 - 09:30	3.50	TRP	10	TRIP OUT OF HOLE FOR BIT
	09:30 - 11:00	1.50	TRP	1	CHANGE OUT MOTOR AND BIT, ORIENT AND TEST TOOLS, P/U JARS
	11:00 - 17:30	6.50	TRP	10	TRIP IN HOLE WITH BIT #4
	17:30 - 06:00	12.50	DRL	2	DIRECTIONAL DRILL FROM 6498' TO 6642' 144'
					ROP 11.5 FT/HR WOB 12/15
9/19/2009	06:00 - 12:30	6.50	DRL	2	DIRECTIONAL DRILL FROM 6642' TO 6711' 69'
					ROP 10.6 FT/HR WOB 14/20 RPM 257(SLIDE) 297(ROTATE)
	12:30 - 13:00	0.50	RIG	1	RIG SERVICE
	13:00 - 00:00	11.00	DRL	2	DIRECTIONAL DRILL FROM 6711' TO 6874' 163'
					ROP 14.8 FT/HR WOB 12/22 RPM 257(SLIDE) 297 (ROTATE)
	00:00 - 01:00	1.00	CIRC	1	CIRCULATE UP SAMPLE, PUMP TRIP SLUG

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Operations Summary Report

Well Name: BRENNAN 6
 Location: 19- 7-S 21-E 26
 Rig Name: BASIN WELL SEREVICE

Spud Date: 7/8/1971
 Rig Release: 10/22/2009
 Rig Number: 3

Date	From - To	Hours	Code	Sub Code	Description of Operations
9/19/2009	01:00 - 06:00	5.00	TRP	10	T.O.O.H. FOR BIT#5
9/20/2009	06:00 - 07:00	1.00	TRP	1	CHANGE OUT BIT AND MOTOR, ORIENT TOOLS
	07:00 - 08:30	1.50	TRP	2	TRIP IN HOLE WITH BIT #5
	08:30 - 14:30	6.00	RIG	2	RIG REPAIR-WORK ON RIGHT ANGLE DRIVE COOLING PROBLEM FOR DRAWWORKS AND TOP DRIVE.
	14:30 - 19:00	4.50	TRP	10	TRIP IN HOLE WITH BIT #5- TIGHT @ 6543'
	19:00 - 19:30	0.50	REAM	1	WASH 25' TO BOTTOM
	19:30 - 06:00	10.50	DRL	1	DRILLING F/6874' T/6948' 74'
					ROP 7.0 FT/HR WOB 4/15 RPM 205(SLIDE) 245(ROTATE)
9/21/2009	06:00 - 09:30	3.50	DRL	2	DIRECTIONAL DRILLING F/6948 T/6964
	09:30 - 10:30	1.00	CIRC	1	PUMP HIGH VIS SWEEP AND CIRCULATE OUT OF HOLE
	10:30 - 15:00	4.50	TRP	2	TRIP OUT OF HOLE FOR NEW BHA, LAY DOWN 8 JOINTS OF DRILL PIPE
	15:00 - 16:00	1.00	TRP	1	CHANGE OUT MOTOR AND BIT AND ORIENT
	16:00 - 22:30	6.50	TRP	2	TRIP IN THE HOLE TO 6715'
	22:30 - 23:30	1.00	DRL	3	ORIENT DIRECTIONAL TOOLS AND ESTABLISH A TROUGH FROM 6711' TO 6722'
	23:30 - 02:30	3.00	DRL	7	SIDE TRACK WELL AND TIME DRILL FROM 6722' TO 6732' 10'
					ROP 3.3 FT/HR WOB 0-1
	02:30 - 06:00	3.50	DRL	2	DIRECTIONAL DRILL F/6732' T/6755' 23'
					ROP 6.6 FT/HR WOB 15/20 RPM 257 (SLIDE)
9/22/2009	06:00 - 07:00	1.00	DRL	2	DIRECTIONAL DRILLING F/6755 T/6779 24' 24'/HR
	07:00 - 08:00	1.00	CIRC	1	CIRCULATE SAMPLES
	08:00 - 14:00	6.00	DRL	2	DIRECTIONAL DRILLING F/6779 T/6902 123' 20.5'/HR
					WOB 15 DHRPM 293 GPM 129
	14:00 - 14:30	0.50	RIG	1	RIG SERVICE
	14:30 - 23:30	9.00	DRL	2	DIRECTIONAL DRILLING F/6902 T/7154' 252' 28'/HR
					WOB 12/20 DHRPM 293 GPM 129
	23:30 - 01:30	2.00	CIRC	1	PUMP AND CIRCULATE OUT VIS SWEEP, PUMP TRIP SLUG
	01:30 - 06:00	4.50	TRP	2	T.O.O.H. FOR BHA CHANGE, RAN BACK THROUGH SIDE TRACK, TOOL FACE AT 225.
9/23/2009	06:00 - 06:30	0.50	TRP	10	TRIP OUT OF HOLE FOR BIT AND MOTOR
	06:30 - 08:30	2.00	TRP	1	CHANGE OUT BIT AND MOTOR, ORIENT TOOLS
	08:30 - 10:30	2.00	RIG	1	RIG SERVICE AND CHANGE OIL ON TOP DRIVE AND RIG
	10:30 - 14:00	3.50	TRP	2	TRIP IN THE HOLE WITH BIT #6(RR)
	14:00 - 17:00	3.00	DRL	2	DIRECTIONAL DRILL F/7154' T/7156, ATTEMPT TO SLIDE, POSSIBLE DIFERENTIAL STICKING, LOSING MUD AT 6 BBLS/HR
	17:00 - 18:00	1.00	DRL	2	WASH AND REAM F/7141 T/7156 AND ATTEMPT TO BUILD A SLOT TO HELP DROP ANGLE
	18:00 - 23:00	5.00	DRL	2	DIRECTIONAL DRILL (ROTATE) F/7156 T/ 7171 - 15' @ 15'/HR W/ 1-2 WOB
					(SLIDE) F/7171 T/7181 - 10' @ 2.8'/HR W/ 10-26 WOB
					(ROTATE) F/7181 T/7191 - 10' @ 60'/HR W/ 5 WOB
	23:00 - 00:30	1.50	CIRC	5	CIRCULATE LCM SWEEP AND CATCH SAMPLE
	00:30 - 04:30	4.00	TRP	2	T.O.O.H. TO CHANGE BHA ASSEMBLY
	04:30 - 06:00	1.50	TRP	1	CHANGE OUT MONELS, ORIENT TOOLS
9/24/2009	06:00 - 07:30	1.50	TRP	1	LD BIT #7RR SMITH M609 S/N JX8113, PU SAME BIT;
	07:30 - 11:00	3.50	TRP	2	T.I.H.
	11:00 - 11:30	0.50	CIRC	1	BREAK CIRC AND ORIENT BIT
	11:30 - 06:00	18.50	DRL	2	DIRECTIONAL DRLG:7191-7630. SLIDES: 7191-7202, 7248-7262, 7333-7351, 7423-7430
9/25/2009	06:00 - 09:00	3.00	DRL	2	DIRECTIONAL DRLG LATTERAL 7630-7690; SLIDES: 7658-7673; 3K-7K WOB SLIDING; 4K-5K WOB ROTATING; 35 RPM TOP DRIVE, 222 RPM MUD MTR, 257 RPM BIT; 143 GPM;

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Operations Summary Report

Well Name: BRENNAN 6
 Location: 19- 7-S 21-E 26
 Rig Name: BASIN WELL SEREVICE

Spud Date: 7/8/1971
 Rig Release: 10/22/2009
 Rig Number: 3

Date	From - To	Hours	Code	Sub Code	Description of Operations
9/25/2009	09:00 - 09:30	0.50	RIG	1	SERVICE RIG, CHK C.O.M. FUNCTION PIPE RAMS, ANNULAR;
	09:30 - 13:00	3.50	DRL	1	DIRECTIONAL DRLG LATTERAL 7690-7753; SLIDES: 7690-7693, 7722-7738, 7751-7753; OUT OF TOP OF G1 LIMESTONE FORMATION AT 7743.
	13:00 - 13:30	0.50	CIRC	5	CIRC BTMS UP FOR SAMPLES
	13:30 - 20:00	6.50	DRL	2	DIRECTIONAL DRLG LATTERAL 7753-7848; SLIDES: 7753-7761, 7785-7805, 7834-7848; DROP BACK INTO G1 LIMESTONE FORMATION AT 7814;
	20:00 - 20:30	0.50	RIG	1	SERVICE RIG;
	20:30 - 06:00	9.50	DRL	2	DIRECTIONAL DRLG LATTERAL 7848-8075; SLIDES 7894-7914, 7943-7955, 7987-7997;
9/26/2009	06:00 - 07:00	1.00	DRL	2	OUT BOTTOM OF G1 LIMESTONE AT 8040. DIRECTIONAL DRLG LATTERAL 8055-8064; 4K-5K WOB ROTATING; 35 RPM TOP DRIVE, 207 RPM MUD MTR, 242 RPM BIT; 133 GPM; 2523 PSI PMP PRESS. STILL OUT BTM OF G1 LIMESTONE.
	07:00 - 12:00	5.00	TRP	12	PLANNED SHORT TRIP; DRLR PUT 20K WOB WHILE ROTATING - TWISTED SHAFT OFF IN MUD MTR. - PMP DRY PIPE PILL, T.O.O.H. FOR MUD MTR, GAMMA RAY TOOL.
	12:00 - 13:30	1.50	TRP	1	LD BIT 8RR (SMITH M609 S/N JX8113), C/O GAMMA RAY TOOLS, C/O MUD MTR (BICO FOR WENZEL). FUNCTION BLIND RAMS, ANNULAR. PU BIT 9 (SMITH M609 S/N JY3360)
	13:30 - 14:00	0.50	RIG	1	RIG SERVICE.
	14:00 - 20:00	6.00	TRP	12	T.I.H. TO 7802, BIT TAKING WEIGHT (TOP OF FORMATION RE-ENTRY POINT).
	20:00 - 21:00	1.00	TRP	12	WORK DRILL STRING TO 8032. BEGAN WASHING DOWN TO TD - HOLE FOUND IN MUD LINE.
	21:00 - 22:30	1.50	TRP	13	T.O.O.H. TO KICK OFF POINT CSG WINDOW.
	22:30 - 23:30	1.00	WOT	4	W.O. WELDER FOR REPAIRS TO MUD LINE.
	23:30 - 03:00	3.50	RIG	2	WELDER TO REFABRICATE MUD LINE (CRACK IN CHICKSAN).
	03:00 - 05:00	2.00	TRP	13	T.I.H., WASH 64 FT TO BTM.
	05:00 - 06:00	1.00	DRL	2	DRLG 8064-8079.
9/27/2009	06:00 - 15:00	9.00	DRL	2	STILL OUT BTM OF G1 LIMESTONE. DIRECTIONALLY DRLG LATERAL SECTION 8079-8210; 4K-5K WOB ROTATING, #1 PMP X 91 SPM, 141 GPM, 2550 PSI PMP PRESS ROTATING; 219 RPM MUD MTR, 35 RPM TOP DRIVE, 253 RPM BIT ROTATING; 16-39 FPH ROP ROTATING; SLIDING 8105-8112, 8203-8210; 4K-6K SLIDING, #1 PMP X 90 SPM, 139 GPM, 2810 PSI PMP PRESS SLIDING, 218 RPM BIT/MTR SLIDING 4-11 FPH ROP SLIDING; GAMMA TOOLS QUIT FUNCTIONING AT 8199 FT. STILL OUT BTM OF G1 LIMESTONE, ATTEMPTING TO SLIDE UP.
	15:00 - 15:30	0.50	CIRC	1	CIRC HOLE PRIOR TO TRIP FOR DIRECTIONAL TOOL CHANGE OUT - PMP DRY PIPE PILL.
	15:30 - 20:30	5.00	TRP	13	T.O.O.H., C/O 1 JT DRILL PIPE BELOW HWDP - DAMAGED FACE,
	20:30 - 23:30	3.00	TRP	1	PULL MWD / GAMMA TOOL. LD BIT #9 SMITH M609 SN JY3360, C/O MUD MOTORS; PU BIT #10 REED HYCALOG DSX111HGJ SN 108605; INSTALL NEW MWD / GAMMA TOOL AND ORIENT MUD MTR - MWD. SURF TEST MWD, SURF TEST MUD MTR;
	23:30 - 00:00	0.50	RIG	1	SERVICE RIG.
9/28/2009	00:00 - 06:00	6.00	TRP	13	T.I.H. FILL PIPE AT 3918, 6174;
	06:00 - 06:30	0.50	TRP	13	T.I.H. AFTER GAMMA TOOL FAILURE.
	06:30 - 07:00	0.50	RIG	2	RIG REPAIR - TIGHTEN KELLY HOSE.
	07:00 - 09:30	2.50	DRL	2	DIRECTIONAL DRLG LATTERAL SECTION 8210-8256, ROTATING 3K-5K WOB, 30 RPM TOP DRIVE, 218 RPM MUD MTR, 248 RPM BIT, 20-30 FPH, #1 PMP X 90 SMP, 139 GPM, 2883 PSI PMP PRESS, STILL OUT BTM OF G1 LIMESTONE
	09:30 - 10:00	0.50	RIG	1	SERVICE RIG, FUNCTION PIPE RAMS.
	10:00 - 21:00	11.00	DRL	2	DIRECTIONAL DRLG LATTERAL SECTION 8256-8368, ROTATING 4K-6K WOB,

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Operations Summary Report

Well Name: BRENNAN 6
 Location: 19- 7-S 21-E 26
 Rig Name: BASIN WELL SEREVICE

Spud Date: 7/8/1971
 Rig Release: 10/22/2009
 Rig Number: 3

Date	From - To	Hours	Code	Sub Code	Description of Operations
9/28/2009	10:00 - 21:00	11.00	DRL	2	30 RPM TOP DRIVE, 222 RPM MUD MTR, 252 RPM BIT, 31-41 FPH, #1 PMP X 92 SMP, 142 GPM, 2580 PSI PMP PRESS, SLIDING 8266-8283, 8303-8314, 8334-8351, 8351-8368; SLIDING 8K-15K WOB, 218 RPM MUD MTR/BIT, 4-7 FPH, #1 PMP X 90 SPM, 139 GPM, 2527 PSI PMP PRESS. STILL OUT BTM OF G1 LIMESTONE, ATTEMPTING TO SLIDE UP. LOOSING ANY ANGLE GAINED ON SLIDES DURING ROTATION.
	21:00 - 22:00	1.00	CIRC	5	CIRC BTM HOLE SAMPLES UP FOR GEOLOGIC ANALYSIS (IN ZONE OR BELOW ZONE). PLAN TO SLIDE ONLY UNTIL INDICATIONS SUGGEST BACK INTO G1 LIMESTONE.
	22:00 - 23:30	1.50	DRL	2	DIRECTIONAL DRLG LATTERAL SECTION 8368-8383 SLIDING 8368-8383; SLIDING 10K-27K WOB, 218 RPM MUD MTR/BIT, 8-23 FPH, #1 PMP X 90 SPM, 139 GPM, 2580 PSI PMP PRESS. STILL OUT BTM OF G1 LIMESTONE, ATTEMPTING TO SLIDE UP. INCREASE IN ROP AT 8378, GAMMA RAY DROPPING FROM 70-80 TO 55-65.
	23:30 - 00:00	0.50	CIRC	5	CIRC BTM HOLE SAMPLES UP FOR GEOLOGIC ANALYSIS (IN ZONE OR BELOW ZONE). BACK IN G1 LIMESTONE AT 8380.
	00:00 - 01:30	1.50	REAM	1	PMP 20 BBL NUT PLUG SWEEP, WORK PIPE (ROTATING) THROUGH LAST SLIDES
	01:30 - 06:00	4.50	DRL	2	DIRECTIONAL DRLG LATTERAL SECTION 8383-8433, ROTATING 8401-8411, 5K WOB, 30 RPM TOP DRIVE, 218 RPM MUD MTR, 248 RPM BIT, #1 PMP X 90 SPM, 139 GPM, 2744 PSI PMP PRESS, 21-31 FPH ROP; SLIDING 8383-8401, 8411-8433, 25K WOB, 220 RPM MUD MTR/BIT, #1 PMP X 91 SPM, 141 GPM, 2660 PSI PMP PRESS, 8-27 FPH ROP;
9/29/2009	06:00 - 07:00	1.00	DRL	2	DIRECTIONAL DRILL FROM 8433-8444
	07:00 - 10:00	3.00	CIRC	7	CIRCULATE SAMPLES, MIX AND PUMP DRY SLUG
	10:00 - 11:00	1.00	TRP	2	TRIP TO 7932 TO RECALIBRATE GAMMA TOOL
	11:00 - 13:00	2.00	DRL	2	DIRECTIONAL DRILL FROM 8444-8467. BIT SLOWED AND DECISION WAS MADE TO CIRCULATE SAMPLES
	13:00 - 14:00	1.00	CIRC	7	CIRCULATE SAMPLES-SAMPLES SHOWED WE ARE AT THE TOP OF PRODUCTION ZONE
	14:00 - 17:30	3.50	DRL	2	SLIDE DRILLING FROM 8467-8473. COULDN'T SLIDE, AFTER TALKING WITH CHRIS LONGWELL THE DECISION WAS MADE TO TRIP OUT AND MOVE AGITTATOR AND SHUFFLE PUSH PIPE.
	17:30 - 21:30	4.00	TRP	2	TRIP TO SHUFFLE PUSH PIPE, (2500 FT, 200 FT ABOVE CASING EXIT) AND MOVE AGITTATOR TO 1500 FT BACK
	21:30 - 22:00	0.50	RIG	1	RIG SERVICE
	22:00 - 03:30	5.50	TRP	2	TRIP IN HOLE
9/30/2009	03:30 - 06:00	2.50	DRL	2	ATTEMPT TO ROTATE AND DRILL, PLAY WITH WEIGHT ON BIT, PUMP RATES AND TROUGH AWAY FROM HARD SPOT
	06:00 - 09:00	3.00	OTH		TROUGHING HOLE FROM 8458' T/8473
	09:00 - 11:30	2.50	DRL	1	DRILLING F/8473 T88474 1'
	11:30 - 12:00	0.50	CIRC	1	PUMP TRIP SLUG
	12:00 - 16:30	4.50	TRP	10	TRIP OUT OF HOLE FOR BIT, LAY DOW MOTOR AND MULE SHOE SUB
	16:30 - 17:00	0.50	RIG	1	RIG SERVICE
	17:00 - 19:30	2.50	TRP	1	PICK UP MOTOR AND BIT #11, ORIENT TOOLS
	19:30 - 20:30	1.00	RIG	6	CUT DRILLING LINE
	20:30 - 03:00	6.50	TRP	10	TRIP IN HOLE WITH BIT #11, WASH 2 7785'
	03:00 - 04:30	1.50	REAM	1	WASH 90' TO BOTTOM, NO FILL
10/1/2009	04:30 - 06:00	1.50	DRL	2	DIRECTIONAL DRILL F/8474 T/8490
	06:00 - 12:00	6.00	DRL	2	DIRECTIONAL DRILL F/8490 T/8558 68' 11.3'/HR WOB 10/15 RPM 220/250 GPM 140
	12:00 - 12:30	0.50	CIRC	1	PUMP SWEEP (NUT PLUG)

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Operations Summary Report

Well Name: BRENNAN 6
 Location: 19- 7-S 21-E 26
 Rig Name: BASIN WELL SEREVICE

Spud Date: 7/8/1971
 Rig Release: 10/22/2009
 Rig Number: 3

Date	From - To	Hours	Code	Sub Code	Description of Operations
10/1/2009	12:30 - 13:00	0.50	DRL	1	DIRECTIONAL DRILL F/8558 T/8570 12' 24'/HR
	13:00 - 13:30	0.50	RIG	1	RIG SERVICE
	13:30 - 03:30	14.00	DRL	2	DIRECTIONAL DRILL F/8570 T/8817 247' 17.6'/HR WOB 10/15 RPM 220/250 GPM 140
	03:30 - 04:00	0.50	RIG	2	SET BACK 2 SATANDS
	04:00 - 05:30	1.50	RIG	2	CHANGE OUT SWIVLE PACKING
10/2/2009	05:30 - 06:00	0.50	DRL	2	DIRECTIONAL DRILL 8817-8825
	06:00 - 14:00	8.00	DRL	2	DIRECTIONAL DRILL F/8825 T/8945
	14:00 - 14:30	0.50	RIG	1	RIG SERVICE
	14:30 - 15:30	1.00	DRL	2	DIRECTIONAL DRILL F/8945 T/8971
	15:30 - 16:00	0.50	CIRC	1	CIRCULATE, PUMP TRIP SLUG
	16:00 - 22:30	6.50	TRP	10	TRIP OUT OF HOLE WITH BIT #11
	22:30 - 23:30	1.00	TRP	1	CHANGE OUT BIT, CHECK MWD
	23:30 - 02:00	2.50	TRP	10	TRIP IN HOLE WITH BIT #12- PIPE PLUGGED @ 2835'
	02:00 - 03:00	1.00	TRP	2	TRIP OUT OF HOLE WET TO 1641'- SHOCK SUB AND AGITATOR PLUGED.
	03:00 - 04:30	1.50	OTH		UNPLUG SHOCK SUB AND WAIT ON AGITATOR
10/3/2009	04:30 - 06:00	1.50	TRP	10	TRIP IN HOLE WITH BIT #12
	06:00 - 07:00	1.00	TRP	10	TRIP IN HOLE , FILL EVERY 10 STANDS
	07:00 - 09:00	2.00	RIG	2	WORK ON DAPTECH(CROWN SAVER) SYSTEM AND BRAKES
	09:00 - 09:30	0.50	RIG	1	RIG SERVICE, CHANGE OIL IN TOP DRIVE
	09:30 - 12:00	2.50	TRP	10	TRIP IN HOLE , FILL EVERY 10 STANDS
	12:00 - 14:30	2.50	DRL	2	DIRECTIONAL DRILL F/8971 T/9017 46' 23.0'/HR WOB 12/14 RPM 240 GPM 136 MTR BEND=1.6
	14:30 - 15:30	1.00	CIRC	1	CIRCULATE SWEEP AROUND AND WORK HOLE TO SLIDE
10/4/2009	15:30 - 06:00	14.50	DRL	2	DIRECTIONAL DRILL F/9017 T/9285
	06:00 - 07:30	1.50	DRL	2	DIRECTIONAL DRILL F/9285 T/9311
	07:30 - 08:00	0.50	CIRC	1	CIRCULATE BOTTOMS UP TO CATCH SAMPLES
	08:00 - 08:30	0.50	DRL	2	DIRECTIONAL DRILL F/9311 T/9315
	08:30 - 09:00	0.50	RIG	1	RIG SERVICE
	09:00 - 15:00	6.00	DRL	2	DIRECTIONAL DRILL F/9315 T/9485 170' 28.3'/HR WOB 14/15 RPM 240 GOM 136
	15:00 - 16:00	1.00	OTH		WORK ON GAMMA AND MWD TOOLS
	16:00 - 00:00	8.00	DRL	2	DIRECTIONAL DRILL F/9485 T/9593 108' 13.5'/HR
	00:00 - 00:30	0.50	CIRC	1	PUMP TRIP SLUG
	00:30 - 03:00	2.50	TRP	10	TRIP OUT OF HOLE FOR BIT
10/5/2009	03:00 - 03:30	0.50	RIG	1	RIG SERVICE
	03:30 - 06:00	2.50	TRP	10	TRIP OUT OF HOLE FOR BIT
	06:00 - 08:30	2.50	TRP	1	CHANGE OUT BIT AND MOTOR, ORIENT AND TEST TOOLS
	08:30 - 14:00	5.50	TRP	10	TRIP IN HOLE WITH BIT #13
	14:00 - 17:00	3.00	REAM	1	WASH AND REAM F/9139 T/9593 (454')
	17:00 - 06:00	13.00	DRL	1	DRILLING F/9593 T/9877
	06:00 - 10:00	4.00	DRL	2	DIRECTIONAL DRILL IN LATERAL WITH 1.56 R/GAL, 1.6 DEG BEND MOTOR. 9871-9956
10/6/2009	10:00 - 10:30	0.50	RIG	1	RIG SERVICE
	10:30 - 11:30	1.00	DRL	2	DIRECTIONAL DRILLING, 9956-9990
	11:30 - 12:00	0.50	OTH		WORK ON MWD
	12:00 - 21:00	9.00	DRL	2	DIRECTIONAL DRILLING-9990-10255
	21:00 - 22:00	1.00	CIRC	1	CIRCULATE AND CONDITION FOR SHORT TRIP
	22:00 - 02:00	4.00	TRP	14	SHORT TRIP TO 9700 FT, REAM BACK IN HOLE
	02:00 - 04:00	2.00	CIRC	1	CIRCULATE AND CONDITION FOR CASING
	04:00 - 06:00	2.00	TRP	2	TRIP OUT FOR CASING
	06:00 - 10:30	4.50	TRP	2	TRIP OUT TO RUN 3.5 LINER
	10:30 - 12:00	1.50	TRP	1	LD DIRECTIONAL TOOLS

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Operations Summary Report

Well Name: BRENNAN 6
 Location: 19- 7-S 21-E 26
 Rig Name: BASIN WELL SEREVICE

Spud Date: 7/8/1971
 Rig Release: 10/22/2009
 Rig Number: 3

Date	From - To	Hours	Code	Sub Code	Description of Operations
10/7/2009	12:00 - 14:30	2.50	CSG	1	HOLD SAFWTY MEETING X 2 AND RIG UP CASING CREW
	14:30 - 19:00	4.50	CSG	4	RUN 3.5 LINER
	19:00 - 20:00	1.00	CSG	1	RIG DOWN CASING CREW
	20:00 - 23:00	3.00	CSG	4	TRIP IN WITH AND HANG LINER, HANGER TOP AT 6114, LINER LANDED AT 10080, TOP OF PERFORATIONS AT 6833
	23:00 - 00:00	1.00	CSG	1	RIG UP LAY DOWN CREW
	00:00 - 04:30	4.50	TRP	3	LAY DOWN DRILL PIPE
	04:30 - 05:00	0.50	RIG	1	RIG SERVICE
	05:00 - 06:00	1.00	TRP	3	LAY DOWN DRILL PIPE
	06:00 - 09:00	3.00	TRP	3	LAY DOWN DRILL STRING
	09:00 - 12:00	3.00	DEQ	1	SET RETRIEVABLE WEATHERFORD BRIDGE PLUG AT 5590 WITH WARRIOR WIRE LINE SERVICE
10/8/2009	12:00 - 14:00	2.00	BOP	1	NIPPLE DOWN BOPE AND CLEAN MUD TANKS
	14:00 - 06:00	16.00	LOC	4	RIG RELEASED AT 14:00 HRS ON 10/7/2009 RIG DOWN AND PREPARE FOR TRUCKS

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Operations Summary Report - COMPLETION

Well Name: BRENNAN 6
 Location: 19- 7-S 21-E 26
 Rig Name: BASIN WELL SEREVICE

Spud Date: 7/8/1971
 Rig Release: 10/22/2009
 Rig Number: 3

Date	From - To	Hours	Code	Sub Code	Description of Operations
10/13/2009	06:00 - 16:00	10.00	BOP	1	<p>"TIGHT HOLE": Initial report of completion</p> <p>On 10/12/2009 MIRU Basin WS #3 to start completion of B-1 lime horizontal drilled section. NDWH and NU BOP's Tally and rabbit in the hole with a 4-3/4" rock bit, 5-1/2" csg.scraper and 2-7/8" work string to 1000'. Circ.out drilling mud with 2% KCL water. Repeat same process at 2000' and 3015'. Circ.hole clean at 3000' and SIFN. On 10/13/09 will continue to tally and rabbit in th hole and circulate out drilling mud to ret.BP Aand then POOH with bit and scraper and RIH with ret.head for RBP.</p> <p>Casing Size: 5-1/2" 15.5# and 3-1/2" 9.3# Casing Depth: 3-1/2" to 10078' MD</p>
10/14/2009	06:00 - 16:00	10.00	LOC	2	<p>"TIGHT HOLE": On 10/13/09 SICP and SITP=0#. Continue to tally and rabbit in the hole with bit and scraper and 2 7/8" tbg....Circulate out drilling mud with 2% KCL water at 4000', 5000' and tag RBP at 5566' (tbg.measurement) and circ.hole clean. POOH with bit and scraper. RIH with ret.head and tbg.and tag RBP at 5566 and latch onto plug and release plug and POOH with RBP and tbg..Change over equipment for 2-3/8" tbg..Tally and rabbit in the hole with 1990' of 2-3/8" tbg..SIFN. On 10/14/09 will continue to RIH with 2-3/8" and 2-7/8" tbg.and attempt to clean out 3-1/2" cased hole lateral.</p> <p>Casing Size: 5-1/2" 15.5# and 3-1/2" 9.3# Casing Depth: 3-1/2" to 10078' MD</p>
10/15/2009	06:00 - 16:00	10.00	LOC	2	<p>"TIGHT HOLE": On 10/14/2009 SITP and SICP =slight vacuum. Continue to tally and rabbit in the hole with 2-3/8" hydril tbg.and 2-7/8" tbg. (4014' of hydril tbg.) and circ.out drilling mud at the following depths with 2% KCL water. 6584'; 7604'; 8633'; 9655'; 9840' and tag PBSD at 10087' (tbg.measurment) and circulate hole clean with 2% KCL water. Pull end of 2-3/8" tbg.to 10060'. SIFN. On 10/15/09 will acidize 3-1/2" cased hole lateral.</p> <p>Casing Size: 5-1/2" 15.5# and 3-1/2" 9.3# Casing Depth: 3-1/2" to 10078' MD</p>
10/16/2009	06:00 - 16:00	10.00	STIM	1	<p>"TIGHT HOLE": On AM of 10/15/09 SITP and SICP=slight vacuum. MIRU Superior Services and acidize the slotted 3-1/2" production liner in 7 stages as follows: On each stage the csg.was left open to spot acid at the end of the tbg.and then the csg.was closed during the acid stages into the formation and the acid was flushed to the end of the tbg...</p> <p>Stage#1: Tbg.tail at 10060'. Pump 5000 gal of 15% HCL and flush with 40 bbl.of 2% KCL water and 10 bbl of 10# brine. Avg.of 2600#; Ave.rate=5 BPM; ISIP=700#. Total load of 169 bbl..</p> <p>Stage#2: Tbg.tail at 9779'. Pump 5000 gal.of 15% HCL and flush with 39 bbl.of 2% KCL and 10 bbl.of brine water. ISIP=936#; Ave=3900#. Ave.rate=6.2 BPM; Total load of 168 bbl..</p> <p>Stage#3: Tbg.tail at 9112'. Pump 5000 gal.of 15% HCL and flush with 34 bbl.of 2% KCL and 10 bbl.of brine water. ISIP=972#. Ave.rate=6.3 BPM; Ave.psi=3900#. Total load of 163 bbl.</p> <p>State# 4: Tbg.tail at 8537'. Pump 5000 gal.of 15% HCL and flush with 32 bbl.of 2%</p>

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Operations Summary Report

Well Name: BRENNAN 6
 Location: 19- 7-S 21-E 26
 Rig Name: BASIN WELL SEREVICE

Spud Date: 7/8/1971
 Rig Release: 10/22/2009
 Rig Number: 3

Date	From - To	Hours	Code	Sub Code	Description of Operations
10/16/2009	06:00 - 16:00	10.00	STIM	1	<p>KCL and 20 bbl.of brine water. ISIP=776#. Ave.rate=6.3 BPM. Ave.psi=3458#. Total load of 171 bbl.</p> <p>Stage#5: Tbg.tail at 7955'. Pump 5000 gal.of 15% HCL acid and flush with 13 bbl.of 2% KCL and 25 bbl.of brine. ISIP=715#, Ave.rate=6.1BPM Ave.psi=3140#. Total load of 157 bbl..</p> <p>Stage#6: Tbg.tail at 7412'; Pump 5000 gal.of 15% HCL and flush with 10 bbl.of 2% KCL and 25 bbl.of brine. ISIP=673#. Ave.rate=6.2 BPM. Ave.psi 3065#. Total load of 163 bbl..</p> <p>Stage#7: Tbg.tail at 6994'. Pump 4500 gal.of 15% HCL and flush with 32.bbl.of of 2% KCL water. ISIP=911#. Ave.rate=6.4 BPM. Ave.psi=3273#. Total load of 141 bbl..SI the well and RDMO Superior Services.</p> <p>NOTE: Acidized all stages thru a string of approx. 4000' of 2-3/8" tbg.on bottom and the remainder was 2-7/8" tbg..Recovered an est.200 bbl.of fluid during flow back of csg. while bleeding off well between stages and pumped a total of 1132 bbl.leaving an est.932 bbl.of load to recover. On AM of 10/16/09 SITP=vacuum and SICP=100#.</p> <p>Casing Size: 5-1/2" 15.5# and 3-1/2" 9.3# Casing Depth: 3-1/2" to 10078' MD</p>
10/19/2009	06:00 - 16:00	10.00	EQT	4	<p>LLTR: 932</p> <p>"TIGHT HOLE":</p> <p>On 10/16/09 SITP=vacuum and SICP=100#. Bled off csg. with no fluid recovery. RIH with 97 jts.of tbg.thru the 3-1/2" liner and tag PBTD at 1087'. No obstructions in the 3-1/2" liner. POOH and stand back the 2-7/8" tbg.and lay down the 2-3/8" Hyd-rl. RIH with 2-7/8" work string tbg.to 6108' with the SN at 6074' and SIFV. On 10/19/09 will swab test.</p> <p>On AM of 10/19/09 SITP =200# and SICP=0#. Bled off tbg.with no fluid recovery. RU swab. IFL at 700'. RIH with swab to 1500' and recovered 800' (4-1/2 bbl.without shrinkage) of 100% oil. Continue to swab.</p> <p>Casing Size: 5-1/2" 15.5# and 3-1/2" 9.3# Casing Depth: 3-1/2" to 10078' MD</p>
10/20/2009	06:00 - 16:00	10.00	SWAB	1	<p>LLTR: 932</p> <p>Horizontal Lateral</p> <p>On 10/19/09 SITP = 200# & SICP = 0#. Bled off tbg w/ no fluid recovery. RU swab. IFL @ 700'. Make 2 runs & recovered 10-1/2 bbls of 100% oil (without shrinkage) & saw water on run #3. Make a total of 7 runs & recovered a total of 19 bbls of oil (without shrinkage) and a total of 19 bbls of water w/ a PH = 0. Had swabbed tbg down to max of 1800' while pulling f/ 3000' when the fluid level started to rise w/ a final FFL @ 600' & tbg started to flow. Flow tbg for 1/2 hour at 25# wide open & recovered an additional 30 bbls of oil w/ no water w/ lite gas. Ran out of tank room. Try to establish circulation w/ 120 bbls of 2% KCL water down the csg w/ no returns. Pump 20 bbls of 2% KCL water down the tbg & well dead. POOH & lay down 2-7/8" work string. SIFN.</p> <p>24 Hour Forecast: Will run production string.</p> <p>LLTR: 1053 bbls</p> <p>Casing Size: 5-1/2" 15.5# and 3-1/2" 9.3# Casing Depth: 3-1/2" to 10078' MD</p>

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Operations Summary Report

Well Name: BRENNAN 6
 Location: 19- 7-S 21-E 26
 Rig Name: BASIN WELL SEREVICE

Spud Date: 7/8/1971
 Rig Release: 10/22/2009
 Rig Number: 3

Date	From - To	Hours	Code	Sub Code	Description of Operations
10/20/2009 10/21/2009	06:00 - 16:00 06:00 - 16:00	10.00 10.00	SWAB BOP	1 1	<p>Horizontal Lateral</p> <p>On 10/20/09- SICP = 0#. Pump 20 bbls of 2% KCL water down the csg. RIH w/ production string as follows: Rabbit & tally in the hole w/ the following 2-7/8" tbg; Barred NC; 1 jt; SN; B-2 anchor catcher; 192 jts of tbg to surface. The tbg is the original tbg string that was in the well previously. All tbg is 2-7/8" EUE 8rd J-55 6.5#. ND BOP's. Set tbg anchor w/ 14M# tension @ 6064'. SN @ 6067' & Tbg Tail @ 6100'. NUWH.</p> <p>24 Hour Forecast: Will run rods.</p> <p>LLTR: 1073 bbls</p> <p>Casing Size: 5-1/2" 15.5# and 3-1/2" 9.3# Casing Depth: 3-1/2" to 10078' MD</p>
10/22/2009	06:00 - 16:00	10.00	LOC	4	<p>Horizontal Lateral</p> <p>On 10/21/09 SITP & SICP = 10#. Bled off. Flush tbg w/ hot oiler using 60 bbls of snake oil. Prime & test new pump @ surface. RIH w/ pump & rods (listed below). Seat pump & fill tbg w/ 5 bbls of water & long stroke pump in 800# & held OK. Space out pump w/ 18" f/ tag & 6' of polish rod left out. Clamp off rods. RDMO Basin WS. Turn well over to production department. Final report of lateral G-1 Completion.</p> <p>LLTR: 1133 bbls</p> <p>Casing Size: 5-1/2" 15.5# and 3-1/2" 9.3# Casing Depth: 3-1/2" to 10078' MD</p> <p>Perfs: 3-1/2" slotted liner 9.3# from 6114' to 10078'</p> <p>Tbg Detail: KB = 16' Stretch = 1.30' 192 jts tbg = 6047.40' B-2 AC = 2.77' SN = 1.14' 1 Jt tbg = 31.69' Barred NC = 0.44 Tbg Tail @ 6100.74' SN @ 6067.47'; AC @ 6064.70' w/ 14M# tension. All tbg is used 2-7/8" EUE 8rd 6.5# J-55.</p> <p>Rod & Pump Detail: Pump: 2-1/2"x1-3/4"x20"x23"x24' RHAC Weatherford w/ max stroke = 209" Pump #2520 100 - 3/4" rods; 75 - 7/8" rods; 66 - 1" rods; no pony rods. 1-1/2" x 30' polish rod. All rods are Class "D" reconditioned.</p>

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Daily Completion Workover Report

Well Name: BRENNAN 6 Date: 10/13/2009 Report: 1 DOL: 1.00
 Event Name: COMPLETION Start: 10/13/2009 End: 10/21/2009

General Information

Location: 19- 7-S 21-E 26 Offshore: N Block:
 Country: UNITED STATES Slot:
 State/Prov: UTAH Spud Date: 7/8/1971
 County: UINTAH Well Type: FLOWING OIL
 Field: BRENNAN BOTTOM Well Status: FINAL COMPLETION

Summary Information

Daily Cost: 12,300 Supervisor: JIM SIMONTON Final Report: N
 Cum. Cost: 12,300.00 Engineer: MIKE STAHL
 AFE #: 32211 Pool:
 AFE Cost: 202,600 Zone:
 Interval: /

Daily Fluids

Daily Oil Hauled On: Cum: Oil in Surface Tanks:
 Daily H2O Hauled On: Cum: H2O in Surface Tanks:
 Daily Other Hauled On: Cum: Other in Surface Tanks:
 Daily Oil Hauled Off: Cum: Oil Remaining to Recover:
 Daily H2O Hauled Off: Cum: H2O Remaining to Recover:
 Daily Other Hauled Off: Cum: Other Remaining to Recover:
 Non Recoverable Annular Oil: Cum:
 Non Recoverable Annular H2O: Cum:
 Non Recoverable Annular Other: Cum:

Safety Information

Daily Inspection: Loss Control Incident:
 BOP Drill: N Weather Conditions:
 Safety Meeting: N
 Gov't Inspection: N

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Last Casing Size: (in) Grade:
 Last Casing Weight: (lb/ft) LOT EMW: (ppg)
 Set TMD: (ft)

Operations Summary

From	To	Hours	Code	Subcode	Code 2	Phase	Description
06:00	16:00	10.00	BOP	1	P		<p>"TIGHT HOLE": Initial report of completion</p> <p>On 10/12/2009 MIRU Basin WS #3 to start completion of B-1 lime horizontal drilled section. NDWH and NU BOP's Tally and rabbit in the hole with a 4-3/4" rock bit, 5-1/2" csg. scraper and 2-7/8" work string to 1000'. Circ.out drilling mud with 2% KCL water. Repeat same process at</p>

Daily Completion Workover Report

Well Name: BRENNAN 6

Date: 10/13/2009 Report: 1

DOL: 1.00

Event Name: COMPLETION

Start: 10/13/2009 End: 10/21/2009

Operations Summary

From	To	Hours	Code	Subcode	Code 2	Phase	Description
06:00	16:00	10.00	BOP	1	P		2000' and 3015'. Circ.hole clean at 3000' and SIFN. On 10/13/09 will continue to tally and rabbit in th hole and circulate out drilling mud to ret.BP Aand then POOH with bit and scraper and RIH with ret.head for RBP. Casing Size: 5-1/2" 15.5# and 3-1/2" 9.3# Casing Depth: 3-1/2" to 10078' MD

Current Status: Initial report of completion.

24hr Summary:

24hr Forecast: will continue to tally and rabbit in the hole and circulate

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Daily Completion Workover Report

Well Name: BRENNAN 6

Date: 10/14/2009 Report: 2

DOL: 2.00

Event Name: COMPLETION

Start: 10/13/2009 End: 10/21/2009

General Information

Location: 19- 7-S 21-E 26

Offshore: N

Block:

Country: UNITED STATES

Slot:

State/Prov: UTAH

Spud Date: 7/8/1971

County: UINTAH

Well Type: FLOWING OIL

Field: BRENNAN BOTTOM

Well Status: FINAL COMPLETION

Summary Information

Daily Cost: 9,800

Supervisor: JIM SIMONTON

Final Report: N

Cum. Cost: 22,100.00

Engineer: MIKE STAHL

AFE #: 32211

Pool:

AFE Cost: 202,600

Zone:

Interval: /

Daily Fluids

Daily Oil Hauled On:

Cum:

Oil in Surface Tanks:

Daily H2O Hauled On:

Cum:

H2O in Surface Tanks:

Daily Other Hauled On:

Cum:

Other in Surface Tanks:

Daily Oil Hauled Off:

Cum:

Oil Remaining to Recover:

Daily H2O Hauled Off:

Cum:

H2O Remaining to Recover:

Daily Other Hauled Off:

Cum:

Other Remaining to Recover:

Non Recoverable Annular Oil:

Cum:

Non Recoverable Annular H2O:

Cum:

Non Recoverable Annular Other:

Cum:

Safety Information

Daily Inspection:

Loss Control Incident:

BOP Drill:

N

Weather Conditions:

Safety Meeting:

N

Gov't Inspection:

N

Last Casing Size:

(in)

Grade:

Last Casing Weight:

(lb/ft)

LOT EMW: (ppg)

Set TMD:

(ft)

Operations Summary

From	To	Hours	Code	Subcode	Code 2	Phase	Description
06:00	16:00	10.00	LOC	2	P		<p>"TIGHT HOLE":</p> <p>On 10/13/09 SICP and SITP=0#. Continue to tally and rabbit in the hole with bit and scraper and 2 7/8" tbg....Circulate out drilling mud with 2% KCL water at 4000', 5000' and tag RBP at 5566' (tbg.measurement) and circ.hole clean. POOH with bit and scraper. RIH with ret.head and tbg.and tag RBP at 5566 and latch onto plug and release plug and POOH with RBP and tbg..Change over equipment for 2-3/8" tbg..Tally and rabbit</p>

Daily Completion Workover Report

Well Name: BRENNAN 6

Date: 10/14/2009 Report: 2

DOL: 2.00

Event Name: COMPLETION

Start: 10/13/2009 End: 10/21/2009

Operations Summary

From	To	Hours	Code	Subcode	Code 2	Phase	Description
06:00	16:00	10.00	LOC	2	P		In the hole with 1990' of 2-3/8" tbg..SIFN. On 10/14/09 will continue to RIH with 2-3/8" and 2-7/8" tbg.and attempt to clean out 3-1/2" cased hole lateral. Casing Size: 5-1/2" 15.5# and 3-1/2" 9.3# Casing Depth: 3-1/2" to 10078' MD

Current Status: Continue to tally and rabbit in the hole with bit and scraper.

24hr Summary:

24hr Forecast: attempt to clean out 3-1/2" cased hole lateral.

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Daily Completion Workover ReportWell Name: BRENNAN 6
Event Name: COMPLETIONDate: 10/15/2009 Report: 3
Start: 10/13/2009 End: 10/21/2009

DOL: 3.00

General InformationLocation: 19- 7-S 21-E 26
Country: UNITED STATES
State/Prov: UTAH
County: UINTAH
Field: BRENNAN BOTTOMOffshore: N
Spud Date: 7/8/1971
Well Type: FLOWING OIL
Well Status: FINAL COMPLETIONBlock:
Slot:**Summary Information**Daily Cost: 6,700
Cum. Cost: 28,800.00
AFE #: 32211
AFE Cost: 202,600Supervisor: JIM SIMONTON
Engineer: MIKE STAHL
Pool:
Zone:
Interval: /

Final Report: N

Daily FluidsDaily Oil Hauled On:
Daily H2O Hauled On:
Daily Other Hauled On:
Daily Oil Hauled Off:
Daily H2O Hauled Off:
Daily Other Hauled Off:
Non Recoverable Annular Oil:
Non Recoverable Annular H2O:
Non Recoverable Annular Other:Cum:
Cum:
Cum:
Cum:
Cum:
Cum:
Cum:
Cum:
Cum:
Oil in Surface Tanks:
H2O in Surface Tanks:
Other in Surface Tanks:
Oil Remaining to Recover:
H2O Remaining to Recover:
Other Remaining to Recover:**Safety Information**Daily Inspection:
BOP Drill: N
Safety Meeting: N
Gov't Inspection: NLoss Control Incident:
Weather Conditions:Last Casing Size: (in)
Last Casing Weight: (lb/ft)
Set TMD: (ft)Grade:
LOT EMW: (ppg)**Operations Summary**

From	To	Hours	Code	Subcode	Code 2	Phase	Description
06:00	16:00	10.00	LOC	2	P		<p>"TIGHT HOLE":</p> <p>On 10/14/2009 SITP and SICP =slight vacuum. Continue to tally and rabbit in the hole with 2-3/8" hydril tbg.and 2-7/8" tbg. (4014' of hydril tbg.) and circ.out drilling mud at the following depths with 2% KCL water. 6584'; 7604'; 8633'; 9655'; 9840' and tag PBTD at 10087' (tbg.measurment) and circulate hole clean with 2% KCL water. Pull end of 2-3/8" tbg.to 10060'. SIFN. On 10/15/09 will acidize 3-1/2" cased hole</p>

Daily Completion Workover Report

Well Name: BRENNAN 6

Date: 10/15/2009 Report: 3

DOL: 3.00

Event Name: COMPLETION

Start: 10/13/2009 End: 10/21/2009

Operations Summary

From	To	Hours	Code	Subcode	Code 2	Phase	Description
06:00	16:00	10.00	LOC	2	P		lateral. Casing Size: 5-1/2" 15.5# and 3-1/2" 9.3# Casing Depth: 3-1/2" to 10078' MD

Current Status: On 10/14/2009 SITP and SICP=slight vacuum.

24hr Summary:

24hr Forecast:

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Daily Completion Workover Report

Well Name: BRENNAN 6 Date: 10/16/2009 Report: 4 DOL: 4.00
 Event Name: COMPLETION Start: 10/13/2009 End: 10/21/2009

General Information

Location: 19- 7-S 21-E 26 Offshore: N Block:
 Country: UNITED STATES Slot:
 State/Prov: UTAH Spud Date: 7/8/1971
 County: UINTAH Well Type: FLOWING OIL
 Field: BRENNAN BOTTOM Well Status: FINAL COMPLETION

Summary Information

Daily Cost: 46,700 Supervisor: JIM SIMONTON Final Report: N
 Cum. Cost: 75,600.00 Engineer: MIKE STAHL
 AFE #: 32211 Pool:
 AFE Cost: 202,600 Zone:
 Interval: /

Daily Fluids

Daily Oil Hauled On: Cum: Oil in Surface Tanks:
 Daily H2O Hauled On: Cum: H2O in Surface Tanks:
 Daily Other Hauled On: Cum: Other in Surface Tanks:
 Daily Oil Hauled Off: Cum: Oil Remaining to Recover:
 Daily H2O Hauled Off: Cum: H2O Remaining to Recover:
 Daily Other Hauled Off: Cum: Other Remaining to Recover:
 Non Recoverable Annular Oil: Cum:
 Non Recoverable Annular H2O: Cum:
 Non Recoverable Annular Other: Cum:

Safety Information

Daily Inspection: Loss Control Incident:
 BOP Drill: N Weather Conditions:
 Safety Meeting: N
 Gov't Inspection: N

Last Casing Size: (in) Grade:
 Last Casing Weight: (lb/ft) LOT EMW: (ppg)
 Set TMD: (ft)

Operations Summary

From	To	Hours	Code	Subcode	Code 2	Phase	Description
06:00	16:00	10.00	STIM	1	P		<p>"TIGHT HOLE":</p> <p>On AM of 10/15/09 SITP and SICP=slight vacuum. MIRU Superior Services and acidize the slotted 3-1/2" production liner in 7 stages as follows: On each stage the csg.was left open to spot acid at the end of the tbg.and then the csg.was closed during the acid stages into the formation and the acid was flushed to the end of the tbg...</p> <p>Stage#1: Tbg tail at 10060'. Pump 5000 gal of 15% HCL and flush with 40</p>

Daily Completion Workover Report

Well Name: BRENNAN 6

Date: 10/16/2009 Report: 4

DOL: 4.00

Event Name: COMPLETION

Start: 10/13/2009 End: 10/21/2009

Operations Summary

From	To	Hours	Code	Subcode	Code 2	Phase	Description
08:00	16:00	10.00	STIM	1	P		<p>bbl.of 2% KCL water and 10 bbl of 10# brine. Avg.of 2600#; Ave.rate=5 BPM; ISIP=700#. Total load of 169 bbl.</p> <p>Stage#2: Tbg.tail at 9779'. Pump 5000 gal.of 15% HCL and flush with 39 bbl.of 2% KCL and 10 bbl.of brine water. ISIP=936#; Ave=3900#. Ave.rate=6.2 BPM; Total load of 168 bbl.</p> <p>Stage#3: Tbg.tail at 9112'. Pump 5000 gal.of 15% HCL and flush with 34 bbl.of 2% KCL and 10 bbl.of brine water. ISIP=972#. Ave.rate=6.3 BPM; Ave.psi=3900#. Total load of 163 bbl.</p> <p>State# 4: Tbg.tail at 8537'. Pump 5000 gal.of 15% HCL and flush with 32 bbl.of 2% KCL and 20 bbl.of brine water. ISIP=776#. Ave.rate=6.3 BPM. Ave.psi=3458#. Total load of 171 bbl.</p> <p>Stage#5: Tbg,tail at 7955'. Pump 5000 gal.of 15% HCL acid and flush with 13 bbl.of 2% KCL and 25 bbl.of brine. ISIP=715#, Ave.rate=6.1BPM Ave.psi=3140#. Total load of 157 bbl..</p> <p>Stage#6: Tbg.tail at 7412'; Pump 5000 gal.of 15% HCL and flush with 10 bbl.of 2% KCL and 25 bbl.of brine. ISIP=673#. Ave.rate=6.2 BPM. Ave.psi 3065#. Total load of 163 bbl..</p> <p>Stage#7: Tbg.tail at 6994'. Pump 4500 gal.of 15% HCL and flush with 32.bbl.of.of 2% KCL water. ISIP=911#. Ave.rate=6.4 BPM. Ave.psi=3273#. Total load of 141 bbl..SI the well and RDMO Superior Services.</p> <p>NOTE: Acidized all stages thru a string of approx. 4000' of 2=3/8" tbg.on bottom and the remainder was 2-7/8" tbg..Recovered an est.200 bbl.of fluid during flow back of csg. while bleeding off well between stages and pumped a total of 1132 bbl.leaving an est.932 bbl.of load to recover. On AM of 10/16/09 SITP=vacuum and SICP=100#.</p> <p>Casing Size: 5-1/2" 15.5# and 3-1/2" 9.3#</p> <p>Casing Depth: 3-1/2" to 10078' MD</p> <p>LLTR: 932</p>

Current Status: On AM of 10/15/09 SITP and SICP=slight vacuum.

24hr Summary:

24hr Forecast:

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Daily Completion Workover Report

Well Name: BRENNAN 6

Date: 10/19/2009 Report: 5

DOL: 5.00

Event Name: COMPLETION

Start: 10/13/2009 End: 10/21/2009

General Information

Location: 19- 7-S 21-E 26

Offshore: N

Block:

Country: UNITED STATES

Slot:

State/Prov: UTAH

Spud Date: 7/8/1971

County: UINTAH

Well Type: FLOWING OIL

Field: BRENNAN BOTTOM

Well Status: FINAL COMPLETION

Summary Information

Daily Cost: 9,400

Supervisor: JIM SIMONTON

Final Report: N

Cum. Cost: 84,900.00

Engineer: MIKE STAHL

AFE #: 32211

Pool:

AFE Cost: 202,600

Zone:

Interval: /

Daily Fluids

Daily Oil Hauled On:

Cum:

Oil in Surface Tanks:

Daily H2O Hauled On:

Cum:

H2O in Surface Tanks:

Daily Other Hauled On:

Cum:

Other in Surface Tanks:

Daily Oil Hauled Off:

Cum:

Oil Remaining to Recover:

Daily H2O Hauled Off:

Cum:

H2O Remaining to Recover:

Daily Other Hauled Off:

Cum:

Other Remaining to Recover:

Non Recoverable Annular Oil:

Cum:

Non Recoverable Annular H2O:

Cum:

Non Recoverable Annular Other:

Cum:

Safety Information

Daily Inspection:

Loss Control Incident:

BOP Drill:

N

Weather Conditions:

Safety Meeting:

N

Gov't Inspection:

N

Last Casing Size:

(in)

Grade:

Last Casing Weight:

(lb/ft)

LOT EMW: (ppg)

Set TMD:

(ft)

Operations Summary

From	To	Hours	Code	Subcode	Code 2	Phase	Description
06:00	16:00	10.00	EQT	4	P		<p>"TIGHT HOLE";</p> <p>On 10/16/09 SITP=vacuum and SICP=100#. Bled off csg. with no fluid recovery. RIH with 97 jts.of tbg.thru the 3-1/2" liner and tag PBTD at 1087'. No obstructions in the 3-1/2" liner. POOH and stand back the 2-7/8" tbg.and lay down the 2-3/8" Hyd-rlil. RIH with 2-7/8" work string tbg.to 6108' with the SN at 6074' and SIFW. On 10/19/09 will swab test. On AM of 10/19/09 SITP =200# and SICP=0#. Bled off tbg.with no fluid</p>

Daily Completion Workover Report

Well Name: BRENNAN 6

Date: 10/19/2009 Report: 5

DOL: 5.00

Event Name: COMPLETION

Start: 10/13/2009 End: 10/21/2009

Operations Summary

From	To	Hours	Code	Subcode	Code 2	Phase	Description
06:00	16:00	10.00	EQT	4	P		recovery. RU swab. IFL at 700'. RIH with swab to 1500' and recoverd 800' (4-1/2 bbl.without shrinkage) of 100% oil. Continue to swab. Casing Size: 5-1/2" 15.5# and 3-1/2" 9.3# Casing Depth: 3-1/2" to 10078' MD LLTR: 932

Current Status: On 10/16/09 SITP=vacuum and SICP=100#.

24hr Summary:

24hr Forecast:

Questar E & P

Page 1 of 2

Daily Completion Workover Report

Well Name: BRENNAN 6 Date: 10/20/2009 Report: 6 DOL: 6.00
 Event Name: COMPLETION Start: 10/13/2009 End: 10/21/2009

General Information

Location: 19- 7-S 21-E 26 Offshore: N Block:
 Country: UNITED STATES Slot:
 State/Prov: UTAH Spud Date: 7/8/1971
 County: UINTAH Well Type: FLOWING OIL
 Field: BRENNAN BOTTOM Well Status: FINAL COMPLETION

Summary Information

Daily Cost: 9,100 Supervisor: JIM SIMONTON Final Report: N
 Cum. Cost: 94,000.00 Engineer: MIKE STAHL
 AFE #: 32211 Pool:
 AFE Cost: 202,600 Zone:
 Interval: /

Daily Fluids

Daily Oil Hauled On: Cum: Oil in Surface Tanks:
 Daily H2O Hauled On: Cum: H2O in Surface Tanks:
 Daily Other Hauled On: Cum: Other in Surface Tanks:
 Daily Oil Hauled Off: Cum: Oil Remaining to Recover:
 Daily H2O Hauled Off: Cum: H2O Remaining to Recover:
 Daily Other Hauled Off: Cum: Other Remaining to Recover:
 Non Recoverable Annular Oil: Cum:
 Non Recoverable Annular H2O: Cum:
 Non Recoverable Annular Other: Cum:

Safety Information

Daily Inspection: Loss Control Incident:
 BOP Drill: N Weather Conditions:
 Safety Meeting: N
 Gov't Inspection: N

Last Casing Size: (in) Grade:
 Last Casing Weight: (lb/ft) LOT EMW: (ppg)
 Set TMD: (ft)

Operations Summary

From	To	Hours	Code	Subcode	Code 2	Phase	Description
06:00	16:00	10.00	SWAB	1	P		Horizontal Lateral On 10/19/09 SITP = 200# & SICP = 0#. Bled off tbg w/ no fluid recovery. RU swab. IFL @ 700'. Make 2 runs & recovered 10-1/2 bbls of 100% oil (without shrinkage) & saw water on run #3. Make a total of 7 runs & recovered a total of 19 bbls of oil (without shrinkage) and a total of 19 bbls of water w/ a PH = 0. Had swabbed tbg down to max of 1800' while pulling f/ 3000' when the fluid level started to rise w/ a final FFL @ 600' &

Daily Completion Workover Report

Well Name: BRENNAN 6

Date: 10/20/2009 Report: 6

DOL: 6.00

Event Name: COMPLETION

Start: 10/13/2009 End: 10/21/2009

Operations Summary

From	To	Hours	Code	Subcode	Code 2	Phase	Description
06:00	16:00	10.00	SWAB	1	P		<p>tbg started to flow. Flow tbg for 1/2 hour at 25# wide open & recovered an additional 30 bbls of oil w/ no water w/ lite gas. Ran out of tank room. Try to establish circulation w/ 120 bbls of 2% KCL water down the csg w/ no returns. Pump 20 bbls of 2% KCL water down the tbg & well dead. POOH & lay down 2-7/8" work string. SIFN.</p> <p>24 Hour Forecast: Will run production string.</p> <p>LLTR: 1053 bbls</p> <p>Casing Size: 5-1/2" 15.5# and 3-1/2" 9.3#</p> <p>Casing Depth: 3-1/2" to 10078' MD</p>

Current Status: SITP = 200# & SICP = 0#. Swab. IFL @ 700'. Flow tbg for 1/2 hr @ 25# wide open & recovered an additional 30 bbls of oil w/ gas.

24hr Summary:

24hr Forecast: Will run production string.

Questar E & P

Page 1 of 2

Daily Completion Workover ReportWell Name: BRENNAN 6
Event Name: COMPLETIONDate: 10/21/2009 Report: 7
Start: 10/13/2009 End: 10/21/2009

DOL: 7.00

General Information

Location: 19- 7-S 21-E 26	Offshore: N	Block:
Country: UNITED STATES		Slot:
State/Prov: UTAH	Spud Date: 7/8/1971	
County: UINTAH	Well Type: FLOWING OIL	
Field: BRENNAN BOTTOM	Well Status: FINAL COMPLETION	

Summary Information

Daily Cost: 5,000	Supervisor: JIM SIMONTON	Final Report: N
Cum. Cost: 99,000.00	Engineer: MIKE STAHL	
AFE #: 32211	Pool:	
AFE Cost: 202,600	Zone:	
	Interval: /	

Daily Fluids

Daily Oil Hauled On:	(bbl)	Cum:	0.00(bbl)	Oil in Surface Tanks:	(bbl)
Daily H2O Hauled On:	(bbl)	Cum:	0.00(bbl)	H2O in Surface Tanks:	(bbl)
Daily Other Hauled On:	(scf)	Cum:	0.00(scf)	Other in Surface Tanks:	(scf)
Daily Oil Hauled Off:	(bbl)	Cum:	0.00(bbl)	Oil Remaining to Recover:	(bbl)
Daily H2O Hauled Off:	(bbl)	Cum:	0.00(bbl)	H2O Remaining to Recover:	(bbl)
Daily Other Hauled Off:	(scf)	Cum:	0.00(scf)	Other Remaining to Recover:	(bbl)
Non Recoverable Annular Oil:	(bbl)	Cum:	0.00(bbl)		
Non Recoverable Annular H2O:	(bbl)	Cum:	0.00(bbl)		
Non Recoverable Annular Other:	(scf)	Cum:	0.00(scf)		

Safety Information

Daily Inspection:		Loss Control Incident:
BOP Drill:	N	Weather Conditions:
Safety Meeting:	N	
Gov't Inspection:	N	

Last Casing Size:	(in)	Grade:
Last Casing Weight:	(lb/ft)	LOT EMW: (ppg)
Set TMD:	(ft)	

Operations Summary

From	To	Hours	Code	Subcode	Code 2	Phase	Description
06:00	16:00	10.00	BOP	1	P		Horizontal Lateral On 10/20/09- SICP = 0#. Pump 20 bbls of 2% KCL water down the csg. RIH w/ production string as follows: Rabbit & tally in the hole w/ the following 2-7/8" tbq; Barred NC; 1 jt; SN; B-2 anchor catcher; 192 jts of tbq to surface. The tbq is the original tbq string that was in the well previously. All tbq is 2-7/8" EUE 8rd J-55 6.5#. ND BOP's. Set tbq anchor w/ 14M# tension @ 6064'. SN @ 6067' & Tbg Tail @ 6100'.

Daily Completion Workover Report

Well Name: BRENNAN 6

Date: 10/21/2009 Report: 7

DOL: 7.00

Event Name: COMPLETION

Start: 10/13/2009 End: 10/21/2009

Operations Summary

From	To	Hours	Code	Subcode	Code:2	Phase	Description
06:00	16:00	10.00	BOP	1	P		NUWH. 24 Hour Forecast: Will run rods. LLTR: 1073 bbls Casing Size: 5-1/2" 15.5# and 3-1/2" 9.3# Casing Depth: 3-1/2" to 10078' MD

Current Status: SICP = 0#. RIH w/ production string. ND BOP's & NU WH.

24hr Summary:

24hr Forecast: Run rods.

Questar E & P

Page 1 of 2

Daily Completion Workover ReportWell Name: BRENNAN 6
Event Name: COMPLETIONDate: 10/22/2009 Report: 8
Start: 10/13/2009 End: 10/21/2009

DOL: 8.00

General Information

Location: 19-7-S 21-E 26	Offshore: N	Block:
Country: UNITED STATES		Slot:
State/Prov: UTAH	Spud Date: 7/8/1971	
County: UINTAH	Well Type: FLOWING OIL	
Field: BRENNAN BOTTOM	Well Status: FINAL COMPLETION	

Summary Information

Daily Cost: 9,100	Supervisor: JIM SIMONTON	Final Report: Y
Cum. Cost: 108,100.00	Engineer: MIKE STAHL	
AFE #: 32211	Pool:	
AFE Cost: 202,600	Zone:	
	Interval: /	

Daily Fluids

Daily Oil Hauled On: (bbl)	Cum: 0.00(bbl)	Oil in Surface Tanks: (bbl)
Daily H2O Hauled On: (bbl)	Cum: 0.00(bbl)	H2O in Surface Tanks: (bbl)
Daily Other Hauled On: (scf)	Cum: 0.00(scf)	Other in Surface Tanks: (scf)
Daily Oil Hauled Off: (bbl)	Cum: 0.00(bbl)	Oil Remaining to Recover: (bbl)
Daily H2O Hauled Off: (bbl)	Cum: 0.00(bbl)	H2O Remaining to Recover: (bbl)
Daily Other Hauled Off: (scf)	Cum: 0.00(scf)	Other Remaining to Recover: (bbl)
Non Recoverable Annular Oil: (bbl)	Cum: 0.00(bbl)	
Non Recoverable Annular H2O: (bbl)	Cum: 0.00(bbl)	
Non Recoverable Annular Other: (scf)	Cum: 0.00(scf)	

Safety Information

Daily Inspection:	Loss Control Incident:
BOP Drill: N	Weather Conditions:
Safety Meeting: N	
Gov't Inspection: N	

Last Casing Size: (in)	Grade:
Last Casing Weight: (lb/ft)	LOT EMW: (ppg)
Set TMD: (ft)	

Operations Summary

From	To	Hours	Code	Subcode	Code 2	Phase	Description
06:00	16:00	10.00	LOC	4	P		Horizontal Lateral On 10/21/09 SITP & SICP = 10#. Bled off. Flush tbg w/ hot oiler using 60 bbls of snake oil. Prime & test new pump @ surface. RIH w/ pump & rods (listed below). Seat pump & fill tbg w/ 5 bbls of water & long stroke pump in 800# & held OK. Space out pump w/ 18" f/ tag & 6' of polish rod left out. Clamp off rods. RDMO Basin WS. Turn well over to production department. Final report of lateral G-1 Completion.

Daily Completion Workover Report

Well Name: BRENNAN 6
Event Name: COMPLETION

Date: 10/22/2009 Report: 8
Start: 10/13/2009 End: 10/21/2009

DOL: 8.00

Operations Summary

From	To	Hours	Code	Subcode	Code 2	Phase	Description
06:00	16:00	10.00	LOC	4	P		<p>LLTR: 1133 bbls</p> <p>Casing Size: 5-1/2" 15.5# and 3-1/2" 9.3# Casing Depth: 3-1/2" to 10078' MD</p> <p>Perfs: 3-1/2" slotted liner 9.3# from 6114' to 10078'</p> <p>Tbg Detail: KB = 16' Stretch = 1.30' 192 jts tbg = 6047.40' B-2 AC = 2.77' SN = 1.14' 1 Jt tbg = 31.69' Barred NC = 0.44 Tbg Tail @ 6100.74' SN @ 6067.47'; AC @ 6064.70' w/ 14M# tension. All tbg is used 2-7/8" EUE 8rd 6.5# J-55.</p> <p>Rod & Pump Detail: Pump: 2-1/2"x1-3/4"x20"x23"x24' RHAC Weatherford w/ max stroke = 209" Pump #2520 100 - 3/4" rods; 75 - 7/8" rods; 66 - 1" rods; no pony rods. 1-1/2" x 30' polish rod. All rods are Class "D" reconditioned.</p>

Current Status: SITP & SICP = 10#. Bled off. Flush tbg w/ hot oiler using 60 bbls of snake oil. Prime & test new pump @ surface. RIH w/ pum pump. FINAL REPORT.

24hr Summary:

24hr Forecast:

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET (for state use only)

ROUTING
 CDW

Change of Operator (Well Sold)

X - Operator Name Change

The operator of the well(s) listed below has changed, effective:

6/14/2010

FROM: (Old Operator):

N5085-Questar Exploration and Production Company
 1050 17th St, Suite 500
 Denver, CO 80265

Phone: 1 (303) 308-3048

TO: (New Operator):

N3700-QEP Energy Company
 1050 17th St, Suite 500
 Denver, CO 80265

Phone: 1 (303) 308-3048

CA No.

Unit:

BRENNAN BOTTOM

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED								

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/28/2010
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/28/2010
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/24/2010
- Is the new operator registered in the State of Utah: Business Number: 764611-0143
- (R649-9-2) Waste Management Plan has been received on: Requested
- Inspections of LA PA state/fee well sites complete on: n/a
- Reports current for Production/Disposition & Sundries on: ok
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 8/16/2010 BIA not yet
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: 8/16/2010
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to **Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 6/29/2010

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 6/30/2010
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 6/30/2010
- Bond information entered in RBDMS on: 6/30/2010
- Fee/State wells attached to bond in RBDMS on: 6/30/2010
- Injection Projects to new operator in RBDMS on: 6/30/2010
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: ESB000024
- Indian well(s) covered by Bond Number: 965010693
- (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 965010695
- The **FORMER** operator has requested a release of liability from their bond on: n/a

LEASE INTEREST OWNER NOTIFICATION:

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: See attached
2. NAME OF OPERATOR: Questar Exploration and Production Company <i>N5085</i>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: See attached
3. ADDRESS OF OPERATOR: 1050 17th Street, Suite 500 City: Denver STATE: CO ZIP: 80265		7. UNIT or CA AGREEMENT NAME: See attached
4. LOCATION OF WELL FOOTAGES AT SURFACE: See attached		8. WELL NAME and NUMBER: See attached
PHONE NUMBER: (303) 672-6900		9. API NUMBER: Attached
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		10. FIELD AND POOL, OR WILDCAT: See attached

COUNTY: Attached

STATE: UTAH

11 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>6/14/2010</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Operator Name Change</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective June 14, 2010 Questar Exploration and Production Company changed its name to QEP Energy Company. This name change involves only an internal corporate name change and no third party change of operator is involved. The same employees will continue to be responsible for operations of the properties described on the attached list. All operations will continue to be covered by bond numbers:

Federal Bond Number: 965002976 (BLM Reference No. ESB000024) *N3700*

Utah State Bond Number: ~~965003033~~

Fee Land Bond Number: ~~965003033~~ } *965010695*

BIA Bond Number: ~~799446~~ *965010693*

The attached document is an all inclusive list of the wells operated by Questar Exploration and Production Company. As of June 14, 2010 QEP Energy Company assumes all rights, duties and obligations as operator of the properties as described on the list

NAME (PLEASE PRINT) <u>Morgan Anderson</u>	TITLE <u>Regulatory Affairs Analyst</u>
SIGNATURE <i>Morgan Anderson</i>	DATE <u>6/23/2010</u>

(This space for State use only)

RECEIVED

JUN 28 2010

DIV. OF OIL, GAS & MINING

(See Instructions on Reverse Side)

APPROVED *6/30/2009*

Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

Questar Exploration Production Company (N5085) to QEP Energy Company (N3700)
 BRENNAN BOTTOM
 effective June 14, 2010

well_name	sec	tpw	rng	api	entity	mineral lease	type
BRENNAN 1	13	070S	200E	4304715417	5261	Federal	OW
BRENNAN 3	17	070S	210E	4304715419	10750	Federal	OW
BRENNAN 6	19	070S	210E	4304730109	5261	Federal	OW
BRENNAN 8	17	070S	210E	4304731509	5290	Federal	OW
BRENNAN 9	18	070S	210E	4304732477	5261	Federal	OW
BRENNAN 10	19	070S	210E	4304732771	5261	State	OW
BRENNAN 14	18	070S	210E	4304732774	5261	Federal	OW
BRENNAN 12	18	070S	210E	4304732779	5261	Federal	OW
BBW 11G-20-7-21	20	070S	210E	4304736516	15176	Federal	OW
BRENNAN 2R	18	070S	210E	4304740125		Federal	OW
BRENNAN 7R	13	070S	200E	4304740197	17632	Federal	OW
BRENNAN 15	13	070S	200E	4304740198	5261	Federal	OW



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155
<http://www.blm.gov/ut/st/en.html>



IN REPLY REFER TO:
3100
(UT-922)

JUL 28 2010

Memorandum

To: Vernal Field Office, Price Field Office, Moab Field Office
From: Chief, Branch of Minerals *Roger L. Bankert*
Subject: Name Change Recognized

Attached is a copy of the Certificate of Name Change issued by the Texas Secretary of State and a decision letter recognizing the name change from the ~~Eastern States~~ Office. We have updated our records to reflect the name change in the attached list of leases.

The name change from **Questar Exploration and Production Company** into **QEP Energy Company** is effective June 8, 2010.

cc: MMS
UDOGM

RECEIVED

AUG 16 2010

DM. OF OIL, GAS & MIN. (I)

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTSL-065429			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: BRENNAN BOTTOM			
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: BRENNAN 6			
2. NAME OF OPERATOR: QEP ENERGY COMPANY		9. API NUMBER: 43047301090000			
3. ADDRESS OF OPERATOR: 11002 East 17500 South, Vernal, Ut, 84078		9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0835 FNL 0594 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 19 Township: 07.0S Range: 21.0E Meridian: S		COUNTY: UINTAH STATE: UTAH			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION <input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 10/28/2014 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	TYPE OF ACTION <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input checked="" type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input checked="" type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. QEP ENERGY COMPANY REQUESTS APPROVAL TO RECOMPLETE THE BRENNAN 6 BY ADDING ADDITIONAL PERFORATIONS TO THE GREEN RIVER FORMATION. SEE ATTACHED PROCEDURES.					
Approved by the Utah Division of Oil, Gas and Mining Date: _____ By: <u>Derek Quist</u>					
NAME (PLEASE PRINT) Benna Muth		PHONE NUMBER 435 781-4320			
SIGNATURE N/A		TITLE Regulatory Assistant DATE 10/28/2014			

QEP Energy requests approval to recompleate the Brennan 6 by adding additional perforations to the Green River formation as follows:

1. Set a CFP at 6110'.
2. Stage 1:
 - a. 6089'-6092', 3spf, frac with crosslink fluid.
 - b. 6053'-6056', 3spf, frac with crosslink fluid.
 - c. 6005'-6006', 3spf, frac with crosslink fluid.
 - d. 5970'-5971', 3spf, frac with crosslink fluid.
 - e. 5924'-5926', 3spf, frac with crosslink fluid.
 - f. 5900'-5901', 3spf, frac with crosslink fluid.
 - g. 5882'-5883', 3spf, frac with crosslink fluid.
 - h. 5873'-5875', 3spf, frac with crosslink fluid.
 - i. 5865'-5867', 3spf, frac with crosslink fluid.
3. Set a CPF at 5820'.
4. Stage 2:
 - a. 5777'-5779', 3spf, frac with crosslink fluid.
 - b. 5765'-5767', 3spf, frac with crosslink fluid.
 - c. 5751'-5752', 3spf, frac with crosslink fluid.
 - d. 5718'-5720', 3spf, frac with crosslink fluid.
 - e. 5694'-5696', 3spf, frac with crosslink fluid.
 - f. 5678'-5679', 3spf, frac with crosslink fluid.
 - g. 5664'-5665', 3spf, frac with crosslink fluid.
 - h. 5654'-5655', 3spf, frac with crosslink fluid.
 - i. 5644'-5645', 3spf, frac with crosslink fluid.
 - j. 5630'-5631', 3spf, frac with crosslink fluid.
 - k. 5612'-5613', 3spf, frac with crosslink fluid.
 - l. 5600'-5601', 3spf, frac with crosslink fluid.
5. Drill up top plug and flow well.
6. Drill up bottom frac plug (6110') after the frac fluid is recovered to restore existing production.